

## 1 Features And Benefits

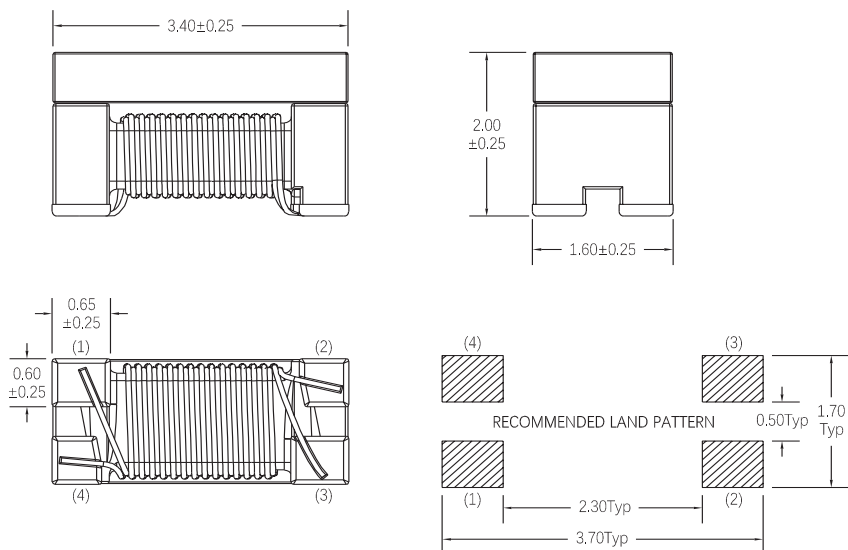
- High common mode impedance at high frequency effects excellent noise suppression performance
- 20uH~60uH are optional for different noise level and signal frequency
- Suppression of Common Mode Noise Without Attenuating The Signal
- High-Quality Product That Uses Auto Winding
- Operating temperature -40℃ to +85℃
- Available in 3216(1206) Size
- RoHS Compliant

## 2 Electrical Specifications @ 25℃

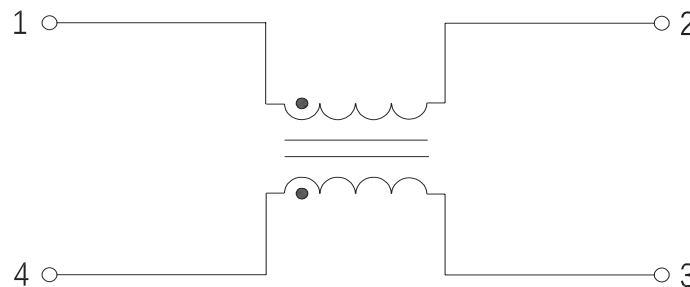
| Part Number      | Inductance<br>100KHz/0.1V<br>(μH)Min | DC<br>Resistance<br>(Ω MAX) | Rated<br>Voltage<br>(Vdc) | Rated<br>Current<br>(mA MAX) | Withstanding<br>Voltage<br>(Vdc) | Insulation<br>Resistance<br>(MΩ MIN) |
|------------------|--------------------------------------|-----------------------------|---------------------------|------------------------------|----------------------------------|--------------------------------------|
| WHLC-3216A-200M0 | 20                                   | 1.00                        | 50                        | 350                          | 125                              | 10                                   |
| WHLC-3216A-600M0 | 60                                   | 1.70                        | 50                        | 200                          | 125                              | 10                                   |



## 3 Dimensions (mm)& recommend layout



## 4 Schematics



**VOOHU** 苏州沃虎电子科技有限公司  
Su Zhou Voohu Electronic Tech.Co.Ltd

TITLE:  
Common Mode Choke

PART NO.:  
WHLC-3216A-M0 Series

REMARK:

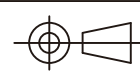
SIZE  
A4

SACLE  
1:1

SHEET  
1/5

UNITS  
MM[INCH]

REV  
A0



GENERAL TOLERANCES  
UNLESS SPECIFIED

x±0.35  
.x±0.30  
.xx±0.25  
.xxx±0.10

x°±3.0°  
.x°±2.0°  
.xx°±1.5°  
.xxx°±1.0°

APPROVED BY:  
Geoffrey.Song

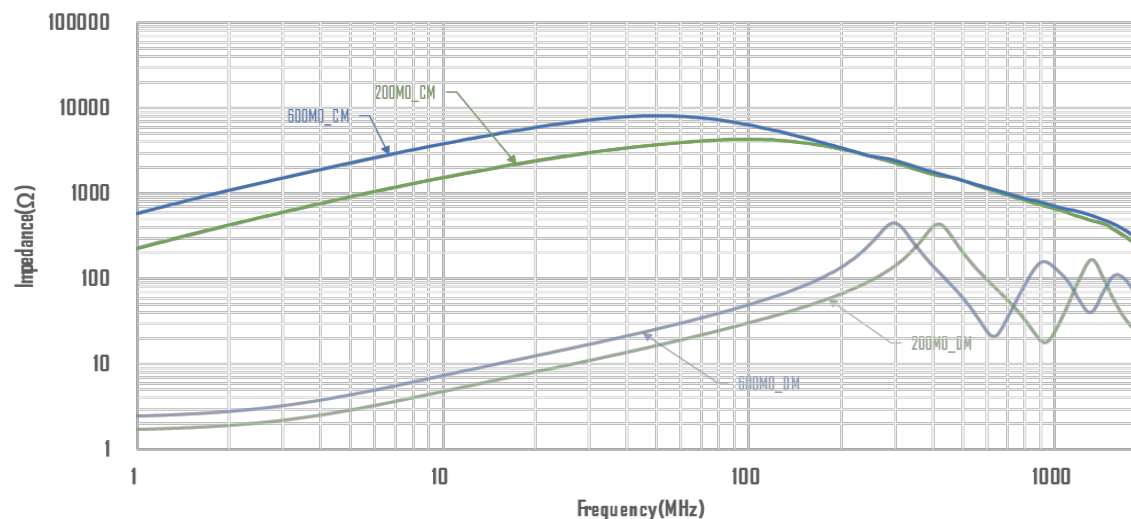
CHECKED BY:  
Elvis.Song

DESIGND BY:  
Sunny.Xu

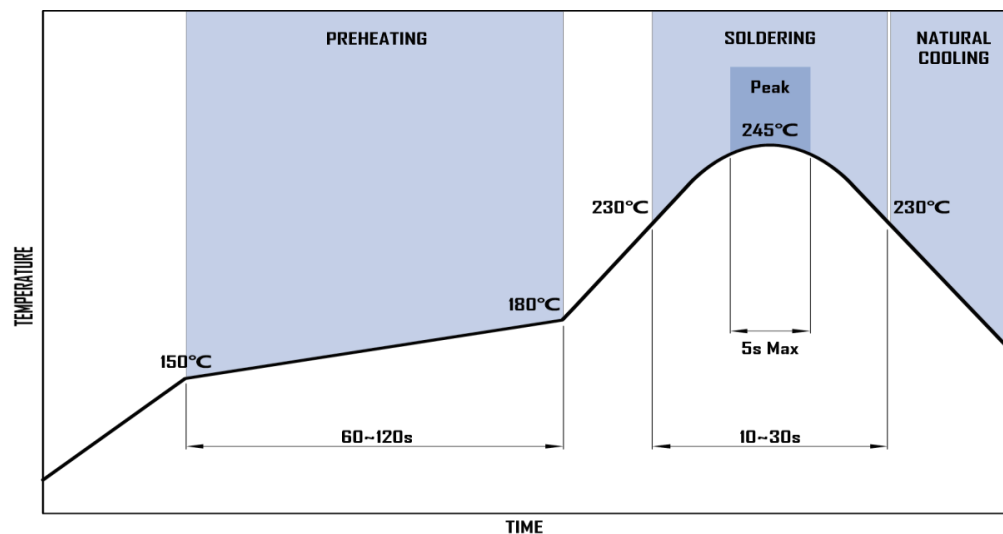
TEL: +86 400 1048 018

WEB: [WWW.WOHU-TEK.COM](http://WWW.WOHU-TEK.COM)

## 5 Impedance VS. Frequency



## 6 Recommended Reflow Profile



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TITLE:  
Common Mode Choke

PART NO.:  
WHLC-3216A-M0 Series

REMARK:

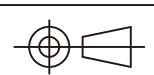
SIZE  
A4

SACLE  
1:1

SHEET  
2/5

UNITS  
MM[INCH]

REV  
A0



GENERAL TOLERANCES  
UNLESS SPECIFIED

|           |            |
|-----------|------------|
| x±0.35    | x°±3.0°    |
| .x±0.30   | .x°±2.0°   |
| .xx±0.25  | .xx°±1.5°  |
| .xxx±0.10 | .xxx°±1.0° |

APPROVED BY:  
Geoffrey.Song

CHECKED BY:  
Elvis.Song

DESIGND BY:  
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|     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                   | 7                                      | 8              |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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---------------|---|
| H   | 8 Reliability test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                                                                                                                                                               |   |              |                                                    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          |   |
| G   | <table><tr><th>NO.</th><th>Test Item</th><th>Standard Reference</th><th>Test Condition</th></tr><tr><td>1</td><td>High temperature storage test</td><td>IPC/JEDEC J-STD-020D</td><td>Temperature: 125±2℃<br/>Time: 168 hours<br/>Measurement at 24±4 hours after test conclusion.</td></tr><tr><td>2</td><td>Low temperature test</td><td>IPC/JEDEC J-STD-020D</td><td>Temperature: -40±2℃<br/>Time: 168 hours<br/>Measurement at 24±4 hours after test conclusion.</td></tr><tr><td>3</td><td>Constant temperature and constant humidity test</td><td>GB/T 2423.3<br/>(IEC 60068-2-78)</td><td>Temperature: 40±2℃ / humidity:93±2%RH<br/>Time: 1000 hours<br/>Measurement at 24±4 hours after test conclusion.</td></tr><tr><td>4</td><td>High temperature and high humidity test</td><td>GB/T 2423.50</td><td>Temperature: 85±2℃ / humidity:85±2%RH<br/>Time: 1000 hours<br/>Measurement at 24±4 hours after test conclusion.</td></tr><tr><td>5</td><td>Thermal shock test</td><td>IPC/JEDEC J-STD-020D</td><td>First -40±5℃ for 30±2 minutes, last 125℃ 30±2 minutes as 1 cycle.<br/>Total 100 cycles.</td></tr><tr><td>6</td><td>Salt spray test</td><td>GB/T2423.17<br/>(IEC 60068-2-11</td><td>Concentration :(5±0.1) %<br/>PH : 6.5 ~ 7.2<br/>Temperature: 35 ±2 ℃<br/>Time: 24 hours</td></tr><tr><td>7</td><td>Solder ability test</td><td>GB/T 2423.28<br/>(IEC 60068-2-20)</td><td>Preheating: 150±5℃, 60 seconds<br/>Immerse the terminal in flux for 5 seconds.then dip the terminal into a soldering bath of 245±5℃ for 2±0.5 seconds.</td></tr><tr><td>8</td><td>Drop test</td><td>GB/T 2423.8<br/>(IEC 60068-2-32 )</td><td>Floor should be hard,strong,concrete.<br/>Height:0.8m.<br/>Test 6 surfaces , 3 ridges and 1 corner of Test-box.</td></tr></table> |                                  |                                                                                                                                                                               |   | NO.          | Test Item                                                                             | Standard Reference                     | Test Condition | 1                             | High temperature storage test | IPC/JEDEC J-STD-020D | Temperature: 125±2℃<br>Time: 168 hours<br>Measurement at 24±4 hours after test conclusion. | 2 | Low temperature test | IPC/JEDEC J-STD-020D | Temperature: -40±2℃<br>Time: 168 hours<br>Measurement at 24±4 hours after test conclusion. | 3 | Constant temperature and constant humidity test | GB/T 2423.3<br>(IEC 60068-2-78) | Temperature: 40±2℃ / humidity:93±2%RH<br>Time: 1000 hours<br>Measurement at 24±4 hours after test conclusion. | 4 | High temperature and high humidity test | GB/T 2423.50 | Temperature: 85±2℃ / humidity:85±2%RH<br>Time: 1000 hours<br>Measurement at 24±4 hours after test conclusion. | 5 | Thermal shock test | IPC/JEDEC J-STD-020D | First -40±5℃ for 30±2 minutes, last 125℃ 30±2 minutes as 1 cycle.<br>Total 100 cycles. | 6 | Salt spray test | GB/T2423.17<br>(IEC 60068-2-11 | Concentration :(5±0.1) %<br>PH : 6.5 ~ 7.2<br>Temperature: 35 ±2 ℃<br>Time: 24 hours | 7 | Solder ability test | GB/T 2423.28<br>(IEC 60068-2-20) | Preheating: 150±5℃, 60 seconds<br>Immerse the terminal in flux for 5 seconds.then dip the terminal into a soldering bath of 245±5℃ for 2±0.5 seconds. | 8 | Drop test | GB/T 2423.8<br>(IEC 60068-2-32 ) | Floor should be hard,strong,concrete.<br>Height:0.8m.<br>Test 6 surfaces , 3 ridges and 1 corner of Test-box. | <table><tr><td>9</td><td>Vibration test</td><td>GB/T 4857.7</td><td>Apply frequency 10~100~10Hz 1.52mm±10% amplitude in each of perpendicular direction for 20 minutes. Total 12 cycles</td></tr><tr><td>10</td><td>Soldering resistance test</td><td>GB/T 2423.50</td><td>Preheating: 150±5℃, 60~120 seconds<br/>dip the terminal into a soldering bath of 260±5℃ for 10±3 seconds with 3 times.</td></tr><tr><td>11</td><td>Terminal strength</td><td>MIL-STD-202</td><td>PCB specification: 100mm X 40mm. 4 layer board<br/>Thickness: 1.60 + / - 0.2 mm<br/>1、&gt;0805 inch/2012mm : 9.8N (1kg)<br/>2、&lt;=0805 inch/2012mm: 4.9N (0.5kg)<br/>Hold time: 60±1 s</td></tr><tr><td>12</td><td>Plate bending test</td><td>MIL-STD-202</td><td>PCB specification: 100mm X 40mm. 4 layer board<br/>Thickness: 1.60 + / - 0.2 mm<br/>Displacement: 2mm<br/>Hold time: 60±1s</td></tr></table> |  |  |  | 9 | Vibration test | GB/T 4857.7 | Apply frequency 10~100~10Hz 1.52mm±10% amplitude in each of perpendicular direction for 20 minutes. Total 12 cycles | 10 | Soldering resistance test | GB/T 2423.50 | Preheating: 150±5℃, 60~120 seconds<br>dip the terminal into a soldering bath of 260±5℃ for 10±3 seconds with 3 times. | 11 | Terminal strength | MIL-STD-202 | PCB specification: 100mm X 40mm. 4 layer board<br>Thickness: 1.60 + / - 0.2 mm<br>1、>0805 inch/2012mm : 9.8N (1kg)<br>2、<=0805 inch/2012mm: 4.9N (0.5kg)<br>Hold time: 60±1 s | 12 | Plate bending test | MIL-STD-202 | PCB specification: 100mm X 40mm. 4 layer board<br>Thickness: 1.60 + / - 0.2 mm<br>Displacement: 2mm<br>Hold time: 60±1s | G |
| NO. | Test Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Standard Reference               | Test Condition                                                                                                                                                                |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 1   | High temperature storage test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IPC/JEDEC J-STD-020D             | Temperature: 125±2℃<br>Time: 168 hours<br>Measurement at 24±4 hours after test conclusion.                                                                                    |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 2   | Low temperature test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IPC/JEDEC J-STD-020D             | Temperature: -40±2℃<br>Time: 168 hours<br>Measurement at 24±4 hours after test conclusion.                                                                                    |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 3   | Constant temperature and constant humidity test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GB/T 2423.3<br>(IEC 60068-2-78)  | Temperature: 40±2℃ / humidity:93±2%RH<br>Time: 1000 hours<br>Measurement at 24±4 hours after test conclusion.                                                                 |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 4   | High temperature and high humidity test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GB/T 2423.50                     | Temperature: 85±2℃ / humidity:85±2%RH<br>Time: 1000 hours<br>Measurement at 24±4 hours after test conclusion.                                                                 |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                                                                                      |   |                     |                                  |                                                                                                                                                       |   |           |                                  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |   |                |             |                                                                                                                     |    |                           |              |                                                                                                                       |    |                   |             |                                                                                                                                                                               |    |                    |             |                                                                                                                         |   |
| 5   | Thermal shock test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IPC/JEDEC J-STD-020D             | First -40±5℃ for 30±2 minutes, last 125℃ 30±2 minutes as 1 cycle.<br>Total 100 cycles.                                                                                        |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 6   | Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GB/T2423.17<br>(IEC 60068-2-11   | Concentration :(5±0.1) %<br>PH : 6.5 ~ 7.2<br>Temperature: 35 ±2 ℃<br>Time: 24 hours                                                                                          |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 7   | Solder ability test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | GB/T 2423.28<br>(IEC 60068-2-20) | Preheating: 150±5℃, 60 seconds<br>Immerse the terminal in flux for 5 seconds.then dip the terminal into a soldering bath of 245±5℃ for 2±0.5 seconds.                         |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 8   | Drop test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GB/T 2423.8<br>(IEC 60068-2-32 ) | Floor should be hard,strong,concrete.<br>Height:0.8m.<br>Test 6 surfaces , 3 ridges and 1 corner of Test-box.                                                                 |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 9   | Vibration test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GB/T 4857.7                      | Apply frequency 10~100~10Hz 1.52mm±10% amplitude in each of perpendicular direction for 20 minutes. Total 12 cycles                                                           |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                                                                                      |   |                     |                                  |                                                                                                                                                       |   |           |                                  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |   |                |             |                                                                                                                     |    |                           |              |                                                                                                                       |    |                   |             |                                                                                                                                                                               |    |                    |             |                                                                                                                         |   |
| 10  | Soldering resistance test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GB/T 2423.50                     | Preheating: 150±5℃, 60~120 seconds<br>dip the terminal into a soldering bath of 260±5℃ for 10±3 seconds with 3 times.                                                         |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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          |   |
| 11  | Terminal strength                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MIL-STD-202                      | PCB specification: 100mm X 40mm. 4 layer board<br>Thickness: 1.60 + / - 0.2 mm<br>1、>0805 inch/2012mm : 9.8N (1kg)<br>2、<=0805 inch/2012mm: 4.9N (0.5kg)<br>Hold time: 60±1 s |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                                                                                      |   |                     |                                  |                                                                                                                                                       |   |           |                                  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |   |                |             |                                                                                                                     |    |                           |              |                                                                                                                       |    |                   |             |                                                                                                                                                                               |    |                    |             |                                                                                                                         |   |
| 12  | Plate bending test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MIL-STD-202                      | PCB specification: 100mm X 40mm. 4 layer board<br>Thickness: 1.60 + / - 0.2 mm<br>Displacement: 2mm<br>Hold time: 60±1s                                                       |   |              |                                                                                       |                                        |                |                               |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                                                                                      |   |                     |                                  |                                                                                                                                                       |   |           |                                  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |   |                |             |                                                                                                                     |    |                           |              |                                                                                                                       |    |                   |             |                                                                                                                                                                               |    |                    |             |                                                                                                                         |   |
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| A   | <div>VOOHU</div> <div>苏州沃虎电子科技有限公司</div> <div>Su Zhou Voohu Electronic Tech.Co.Ltd</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  | TITLE:<br>Common Mode Choke                                                                                                                                                   |   | SIZE<br>A4   | UNITS<br>MM[INCH]                                                                     | GENERAL TOLERANCES<br>UNLESS SPECIFIED |                | APPROVED BY:<br>Geoffrey.Song |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  | PART NO.:<br>WHLC-3216A-M0 Series                                                                                                                                             |   | SACLE<br>1:1 | REV<br>A0                                                                             | .xx±0.35                               | x°±3.0°        | CHECKED BY:                   |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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                                   | .x°±2.0°                               |                | Elvis.Song                    |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                   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|     | TEL: +86 400 1048 018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WEB: WWW.WOHU-TEK.COM            |                                                                                                                                                                               |   | SHEET<br>4/5 |  | .xx±0.25                               | .xx°±1.5°      | DESIGND BY:                   |                               |                      |                                                                                            |   |                      |                      |                                                                                            |   |                                                 |                                 |                                                                                                               |   |                                         |              |                                                                                                               |   |                    |                      |                                                                                        |   |                 |                                |                                                                                      |   |                     |                                  |                                                                                                                                                       |   |           |                                  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |   |                |             |                                                                                                                     |    |                           |              |                                                                                                                       |    |                   |             |                                                                                                                                                                               |    |                    |             |                                                                                                                         |   |
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| H | <div><div></div><div>REMINDERS</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                                   |              |                                                                                       |                                        |                         | H                             |
| G | <p>The best assembly quality guarantee period of product: 12 months (From shipment date)<br/>Storage condition : seal in packaging, (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).</p> <p>If taking out for use, the remaining products should be sealed in plastic bags and preserved in accordance with the above conditions, to avoid oxidation of electrodes and affect soldering status.</p> <p>Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).</p> <p>Before soldering, be sure to preheat components.<br/>The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.</p> <p>Always handle products with care to avoid damage.</p> <p>Do not touch electrodes with bare hands directly, as oil secretions may inhibit soldering.<br/>Always ensure optimum conditions for soldering.</p> <p>Soldering corrections after mounting should be within the range of the conditions determined in the specifications.If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.</p> <p>Use a wrist band to discharge static electricity in your body through the grounding wire.</p> <p>Do not expose the products to magnets or magnetic fields.</p> <p>Do not use for a purpose outside of the contents regulated in the delivery specifications.</p> <p>Do not use for Autimotive application.</p> |   |                                   |              |                                                                                       |                                        |                         | G                             |
| F |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |                                   |              |                                                                                       |                                        |                         | F                             |
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| A | <div><div></div><div>苏州沃虎电子科技有限公司<br/>Su Zhou Voohu Electronic Tech.Co.Ltd</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   | TITLE:<br>Common Mode Choke       | SIZE<br>A4   | UNITS<br>MM[INCH]                                                                     | GENERAL TOLERANCES<br>UNLESS SPECIFIED |                         | APPROVED BY:<br>Geoffrey.Song |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | PART NO.:<br>WHLC-3216A-M0 Series | SACLE<br>1:1 | REV<br>A0                                                                             | x±0.35<br>.x±0.30                      | x°±3.0°<br>.x°±2.0°     | CHECKED BY:<br>Elvis.Song     |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | REMARK:                           | SHEET<br>5/5 |  | .xx±0.25<br>.xxx±0.10                  | .xx°±1.5°<br>.xxx°±1.0° | DESIGND BY:<br>Sunny.Xu       |