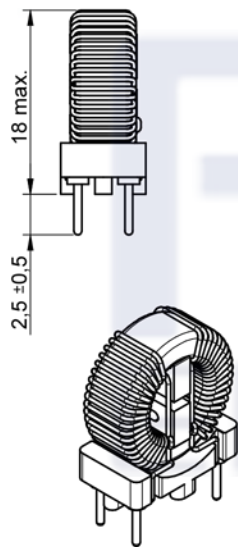
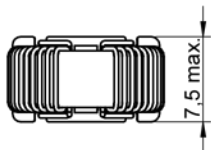
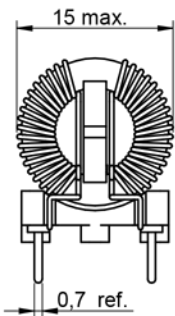
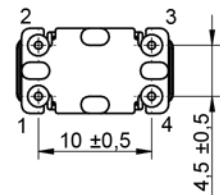
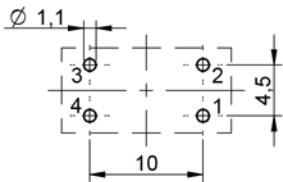


Dimensions: [mm]



Scale - 1,5:1

Recommended Hole Pattern: [mm]



Scale - 1.5:1

Schematic:



Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.  
FKS(Xi'an) Electronic Technology Co.,Ltd.  
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Xixian New Area,Xi'an City, Shaanxi Province,China.  
Tel: +86-29-8868 5333  
Fax: +86-29-8868 0913



Electrical Properties:

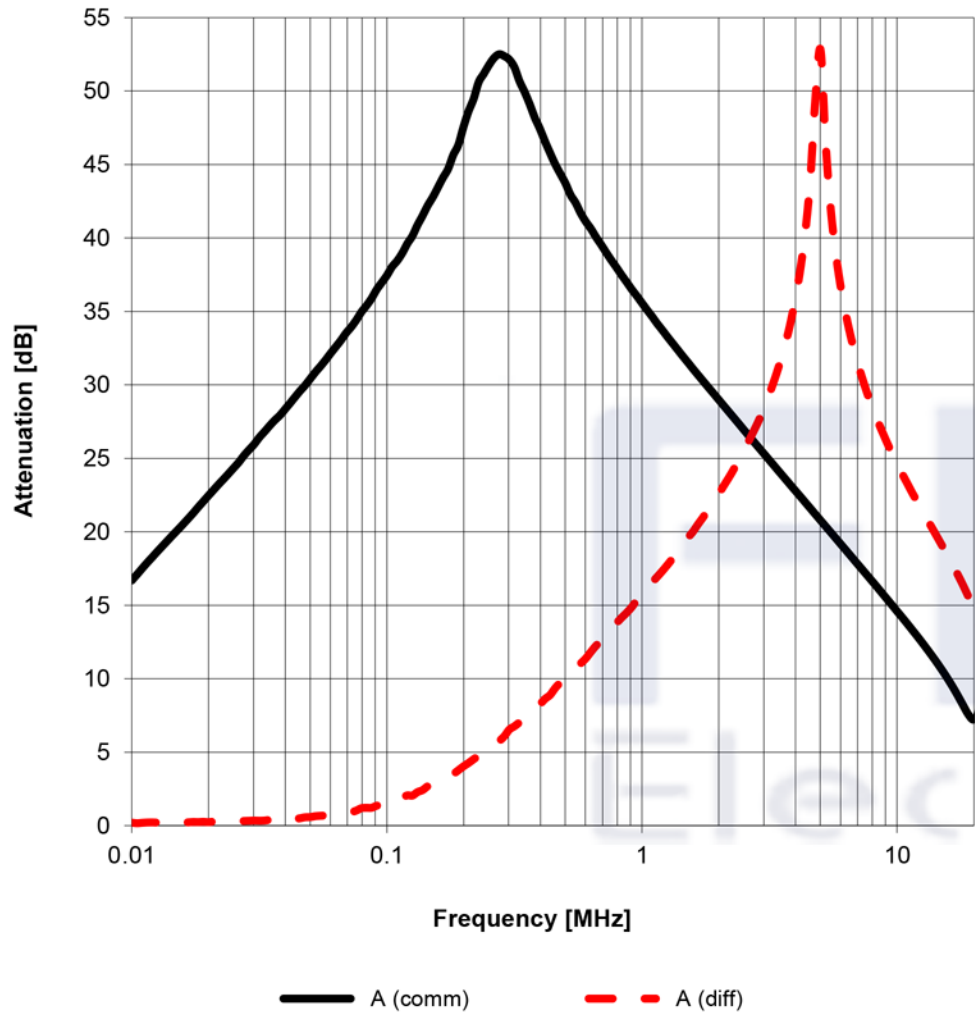
| Properties              | Test conditions     |                 | Value | Unit   | Tol. |
|-------------------------|---------------------|-----------------|-------|--------|------|
| Inductance              | 10 kHz/ 0.1 mA      | L               | 2x10  | mH     | ±30  |
| Rated Current           | @ 70 °C             | I <sub>R</sub>  | 0.7   | A      | max. |
| DC Resistance           | @ 20 °C             | R <sub>DC</sub> | 2x350 | mΩ     | max. |
| Rated Voltage           | 50 Hz               | U <sub>R</sub>  | 250   | V (AC) | max. |
| Insulation Test Voltage | 50 Hz/ 5 mA/ 2 sec. | U <sub>T</sub>  | 1500  | V (AC) |      |

General Properties:

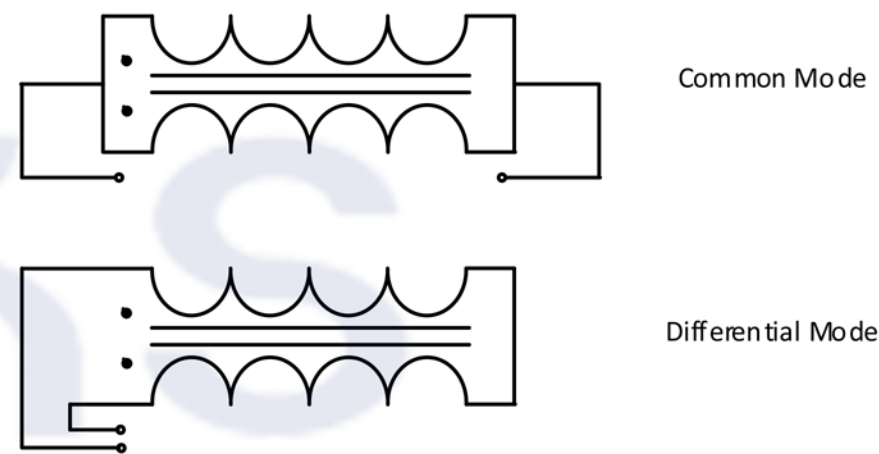
|                                                                                                            |                      |
|------------------------------------------------------------------------------------------------------------|----------------------|
| It is recommended that the temperature of the component does not exceed +125°C under worst case conditions |                      |
| Storage Temperature (in original packaging)                                                                | -20 °C up to +60 °C  |
| Operating Temperature                                                                                      | -40 °C up to +125 °C |
| Temperature Rise < 55K                                                                                     |                      |
| Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently                       |                      |

|                                                        |                     |                                   |  |
|--------------------------------------------------------|---------------------|-----------------------------------|--|
| GENERAL TOLERANCE<br>DIN ISO 2768-1m                   |                     | PROJECTION METHOD<br>             |  |
| DESCRIPTION<br><b>Common Mode Power<br/>Line Choke</b> |                     | ORDER CODE<br><b>FKS744821110</b> |  |
| SIZE<br>XS                                             | REVISION<br>002.004 | STATUS<br>Valid                   |  |

Typical Insertion Loss:

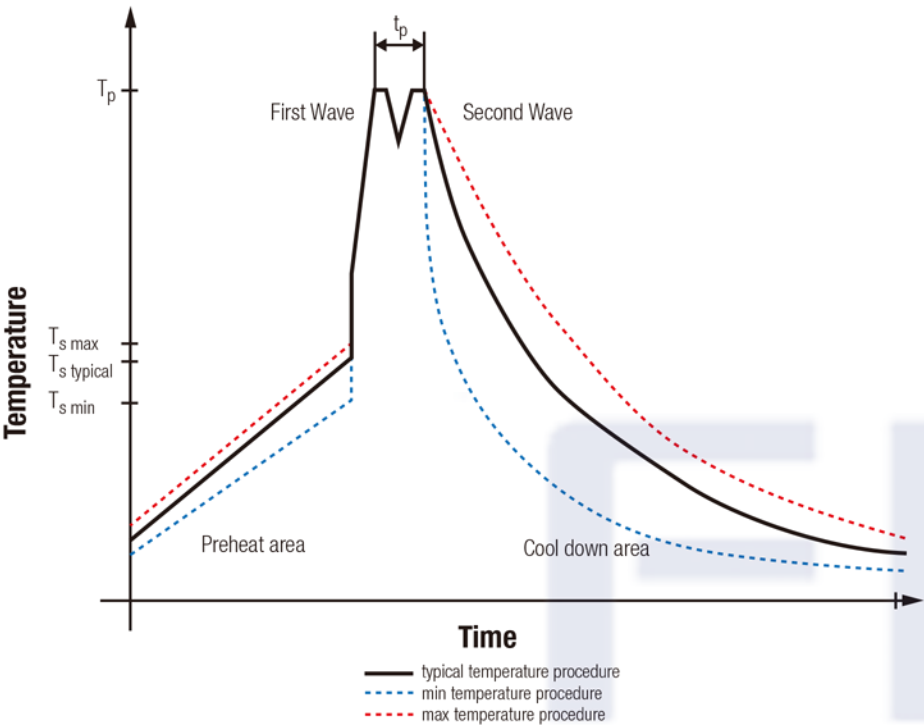


Test Setup:



|                                                                                                                                                                                                                                                                         |                     |                                      |  |                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|
| Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.<br>FKS(Xi'an) Electronic Technology Co.,Ltd.<br>Address: B1 Building,Western Cloud Valley,Fengxi New Town,<br>Xixian New Area,Xi'an City, Shaanxi Province,China.<br>Tel: +86-29-8868 5333<br>Fax: +86-29-8868 0913 |                     | GENERAL TOLERANCE<br>DIN ISO 2768-1m |  | PROJECTION<br>METHOD<br> |  |
| DESCRIPTION<br><br><b>Common Mode Power<br/>Line Choke</b>                                                                                                                                                                                                              |                     |                                      |  |                                                                                                               |  |
|                                                                                                                                                                                                                                                                         |                     |                                      |  | ORDER CODE<br>FKS744821110                                                                                    |  |
| SIZE<br>XS                                                                                                                                                                                                                                                              | REVISION<br>002.004 | STATUS<br>Valid                      |  |                                                                                                               |  |

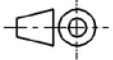
Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

| Profile Feature                                      |                  | Pb-Free Assembly                            | Sn-Pb Assembly                              |
|------------------------------------------------------|------------------|---------------------------------------------|---------------------------------------------|
| Preheat Temperature Min                              | $T_{s\ min}$     | 100 °C                                      | 100 °C                                      |
| Preheat Temperature Typical                          | $T_{s\ typical}$ | 120 °C                                      | 120 °C                                      |
| Preheat Temperature Max                              | $T_{s\ max}$     | 130 °C                                      | 130 °C                                      |
| Preheat Time $t_s$ from $T_{s\ min}$ to $T_{s\ max}$ | $t_s$            | 70 seconds                                  | 70 seconds                                  |
| Ramp-up Rate                                         | $\Delta T$       | 150 °C max.                                 | 150 °C max.                                 |
| Peak temperature                                     | $T_p$            | 250 °C - 260 °C                             | 235 °C - 260 °C                             |
| Time of actual peak temperature                      | $t_p$            | max. 10 seconds<br>max. 5 seconds each wave | max. 10 seconds<br>max. 5 seconds each wave |
| Ramp-down Rate, Min                                  |                  | ~ 2 K/ second                               | ~ 2 K/ second                               |
| Ramp-down Rate, Typical                              |                  | ~ 3.5 K/ second                             | ~ 3.5 K/ second                             |
| Ramp-down Rate, Max                                  |                  | ~ 5 K/ second                               | ~ 5 K/ second                               |
| Time 25°C to 25°C                                    |                  | 4 minutes                                   | 4 minutes                                   |

refer to EN61760-1:2006

|                                                                                                                                                                                                                                                                        |  |                                                        |                     |                                      |                                                                                                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|---------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------|--|
| Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.<br>FKS(Xi'an) Electronic Technology Co.,Ltd.<br>Adress: B1 Building,Western Cloud Valley,Fengxi New Town,<br>Xixian New Area,Xi'an City, Shaanxi Province,China.<br>Tel: +86-29-8868 5333<br>Fax: +86-29-8868 0913 |  |                                                        |                     | GENERAL TOLERANCE<br>DIN ISO 2768-1m | PROJECTION<br>METHOD<br> |  |
|                                                                                              |  | DESCRIPTION<br><b>Common Mode Power<br/>Line Choke</b> |                     |                                      | ORDER CODE<br><b>FKS744821110</b>                                                                             |  |
|                                                                                                                                                                                                                                                                        |  | SIZE<br>XS                                             | REVISION<br>002.004 | STATUS<br>Valid                      |                                                                                                               |  |