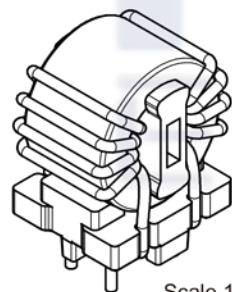
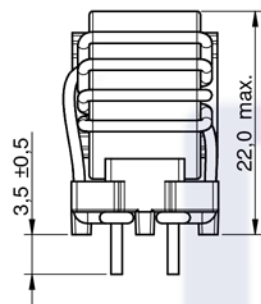
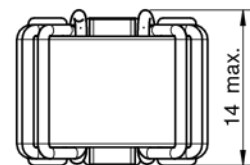
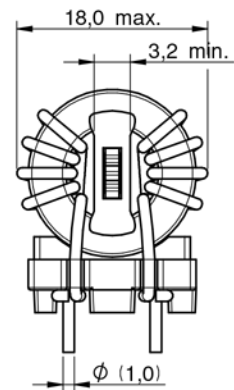
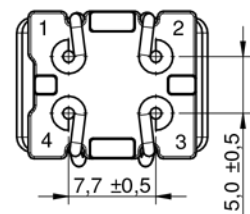
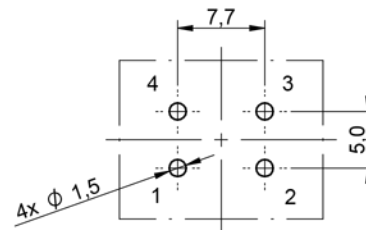


Dimensions: [mm]



Scale 1,5 : 1

Recommended Hole Pattern: [mm]



Scale - 1,5:1

Schematic:



Electrical Properties:

| Properties              |                 | Test conditions     | Value | Unit   | Tol.      |
|-------------------------|-----------------|---------------------|-------|--------|-----------|
| Inductance              | L               | 10 kHz/ 0.1 mA      | 30    | mH     | +50%/-30% |
| Rated Current           | I <sub>R</sub>  | @ 70 °C             | 1.2   | A      | max.      |
| DC Resistance           | R <sub>DC</sub> | @ 20 °C             | 280   | mΩ     | max.      |
| Rated Voltage           | U <sub>R</sub>  | 50 Hz               | 250   | V (AC) | max.      |
| Insulation Test Voltage | U <sub>T</sub>  | 50 Hz/ 5 mA/ 2 sec. | 1500  | V (AC) |           |

General Properties:

|                                                                                                             |                     |
|-------------------------------------------------------------------------------------------------------------|---------------------|
| It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions |                     |
| Operating Temperature                                                                                       | -40 up to +125 °C   |
| Storage Conditions (in original packaging)                                                                  | < 40 °C ; < 75 % RH |
| Moisture Sensitivity Level (MSL)                                                                            | 1                   |
| Temperature Rise < 55 K                                                                                     |                     |
| Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently                      |                     |

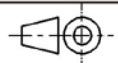
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.  
FKS(Xi'an) Electronic Technology Co.,Ltd.  
Address: B1 Building,Western Cloud Valley,Fengxi New Town,  
Xixian New Area,Xi'an City, Shaanxi Province,China.  
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Fax: +86-29-8868 0913

**FKS**  
Electronics



GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION  
METHOD



**Common Mode Power  
Line Choke Nanocrystalline**

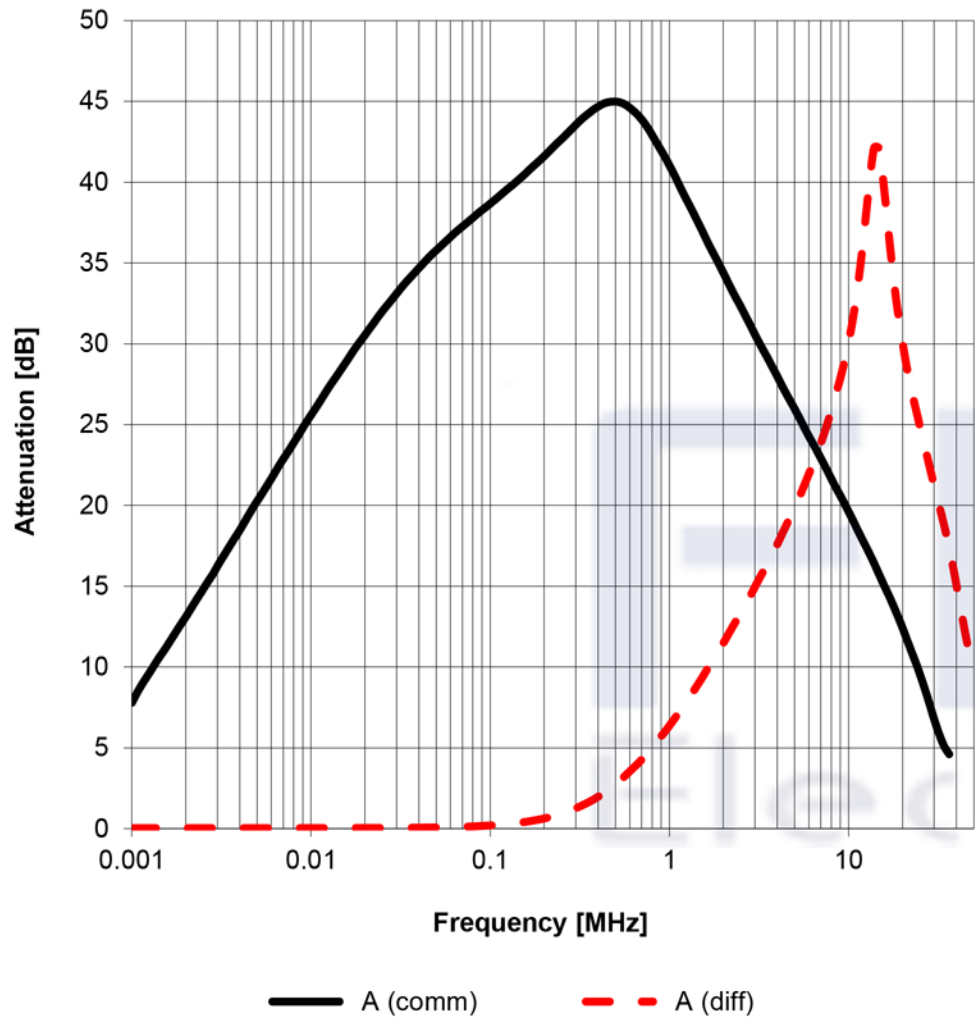
ORDER CODE  
**FKS7448021230**

SIZE  
Type S

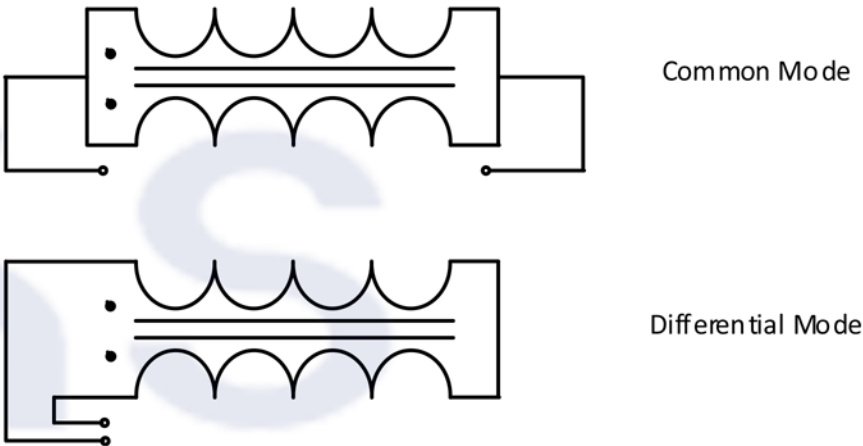
REVISION  
001.001

STATUS  
Valid

Typical Insertion Loss:

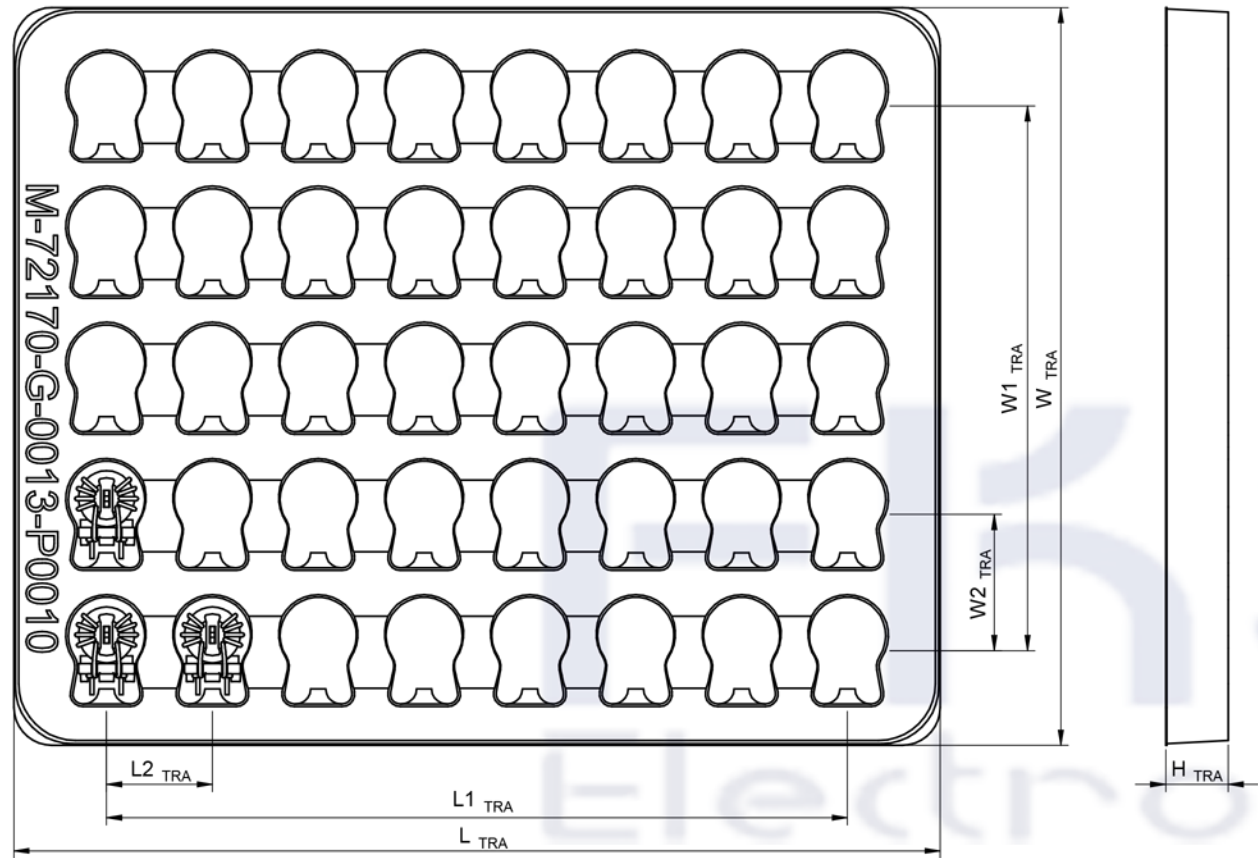


Test Setup:

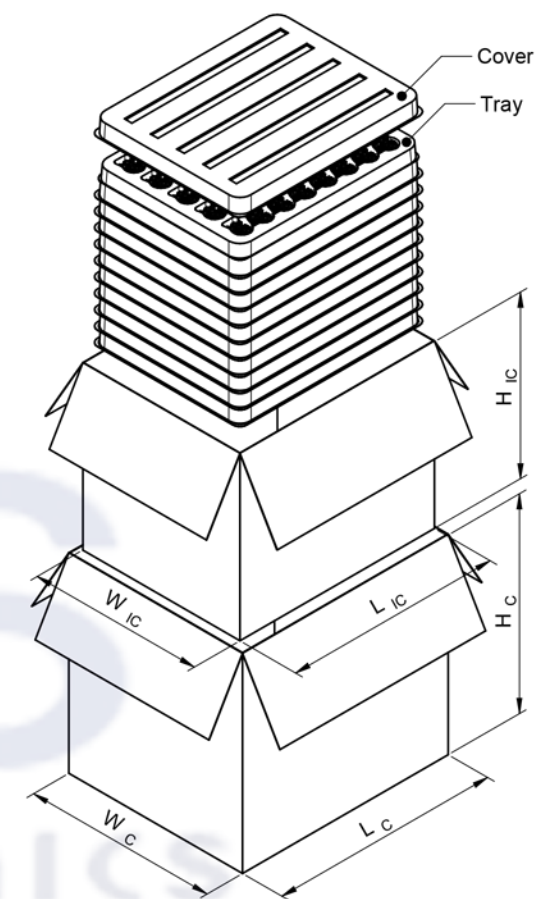


|                                                                                                                                                                                                                                                                         |  |  |                                                                        |                     |                      |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------|---------------------|----------------------|-----------------------------|
| 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 |                             |
|                                                                                                                                                                                                                                                                         |  |  | DESCRIPTION<br><b>Common Mode Power<br/>Line Choke Nanocrystalline</b> |                     |                      | ORDER CODE<br>FKS7448021230 |
|                                                                                                                                                                                                                                                                         |  |  | SIZE<br>Type S                                                         | REVISION<br>001.001 | STATUS<br>Valid      |                             |

Packaging Specification - Tray and Carton: [mm]



| L <sub>TRA</sub> (mm) | L1 <sub>TRA</sub> (mm) | L2 <sub>TRA</sub> (mm) | W <sub>TRA</sub> (mm) | W1 <sub>TRA</sub> (mm) | W2 <sub>TRA</sub> (mm) | H <sub>TRA</sub> (mm) | Packaging Unit | Material |
|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|----------------|----------|
| typ.                  | typ.                   | typ.                   | typ.                  | typ.                   | typ.                   | typ.                  | PCS.           |          |
| 245,00                | 196,00                 | 28,00                  | 195,00                | 144,00                 | 36,00                  | 22,00                 | 40             | PET      |



| L <sub>C</sub> (mm) | W <sub>IC</sub> (mm) | H <sub>IC</sub> (mm) | L <sub>C</sub> (mm) | W <sub>C</sub> (mm) | H <sub>C</sub> (mm) | Packaging Unit | Material |
|---------------------|----------------------|----------------------|---------------------|---------------------|---------------------|----------------|----------|
| typ.                | typ.                 | typ.                 | typ.                | typ.                | typ.                | PCS.           |          |
| 260                 | 210                  | 217                  | 275,00              | 232,00              | 255,00              | 480            | Paper    |

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FKS

Electronics

GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION METHOD

DESCRIPTION  
**Common Mode Power  
Line Choke Nanocrystalline**

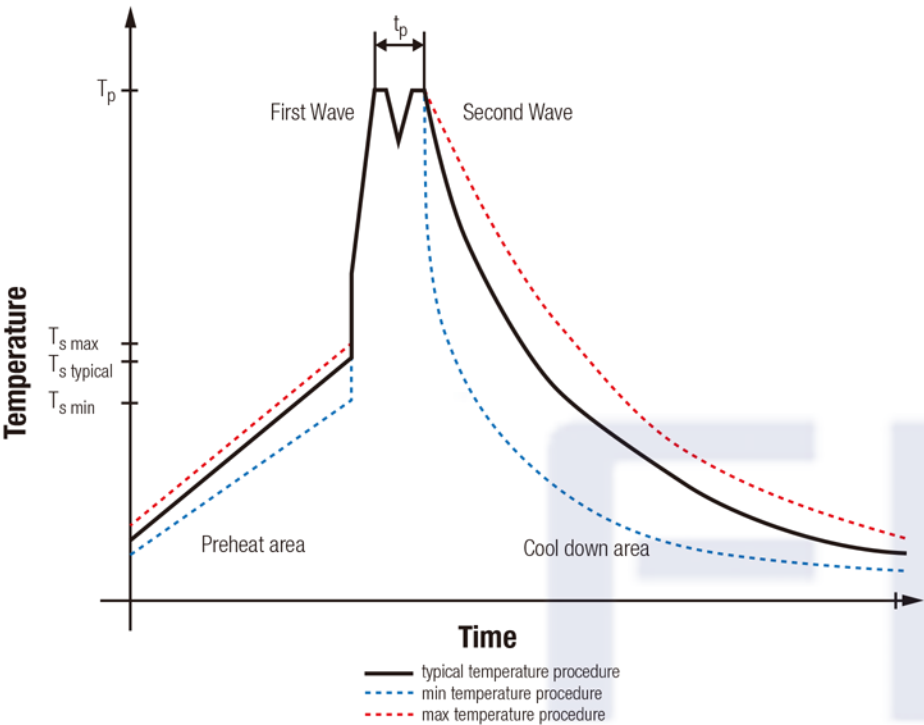
ORDER CODE  
FKS7448021230

SIZE  
Type S

REVISION  
001.001

STATUS  
Valid

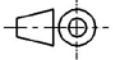
Classification Wave Soldering Profile:



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

|                                                                                                                                                                                                                                                                         |  |                                                                        |                     |                                      |                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------|---------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------|--|
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|                                                                                               |  | DESCRIPTION<br><b>Common Mode Power<br/>Line Choke Nanocrystalline</b> |                     |                                      | ORDER CODE<br>FKS7448021230                                                                                   |  |
|                                                                                                                                                                                                                                                                         |  | SIZE<br>Type S                                                         | REVISION<br>001.001 | STATUS<br>Valid                      |                                                                                                               |  |