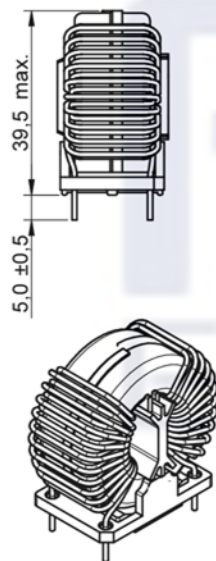
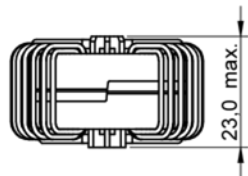
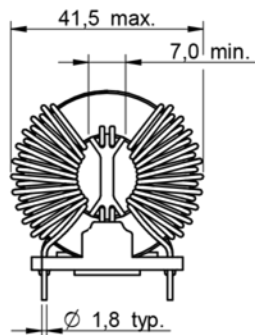
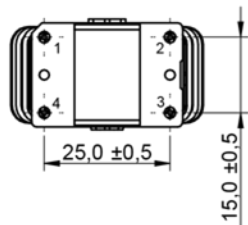
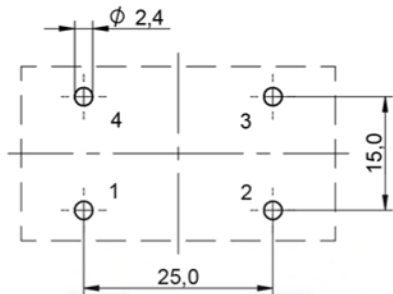


Dimensions: [mm]



Scale - 1:1,5

Recommended Hole Pattern: [mm]



Scale - 1:1

Schematic:



Electrical Properties:

| Properties              | Test conditions     |                 | Value | Unit   | Tol. |
|-------------------------|---------------------|-----------------|-------|--------|------|
| Inductance              | 10 kHz/ 0.1 mA      | L               | 2x1   | mH     | ±30% |
| Rated Current           | @ 70 °C             | I <sub>R</sub>  | 18.5  | A      | max. |
| DC Resistance           | @ 20 °C             | R <sub>DC</sub> | 2x5.5 | mΩ     | max. |
| Rated Voltage           | 50 Hz               | U <sub>R</sub>  | 760   | V (AC) | max. |
| Insulation Test Voltage | 50 Hz/ 5 mA/ 2 sec. | U <sub>T</sub>  | 3000  | V (AC) | max. |

General Information:

|                                                                                                            |                      |
|------------------------------------------------------------------------------------------------------------|----------------------|
| It is recommended that the temperature of the component does not exceed +125°C under worst case conditions |                      |
| Ambient Temperature (referring to I <sub>R</sub> )                                                         | -40 °C up to +85 °C  |
| 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                       |                      |

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Tel: +86-29-8868 5333  
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**FKS**  
Electronics

GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION METHOD

DESCRIPTION  
**HV Common Mode  
Power Line Choke**

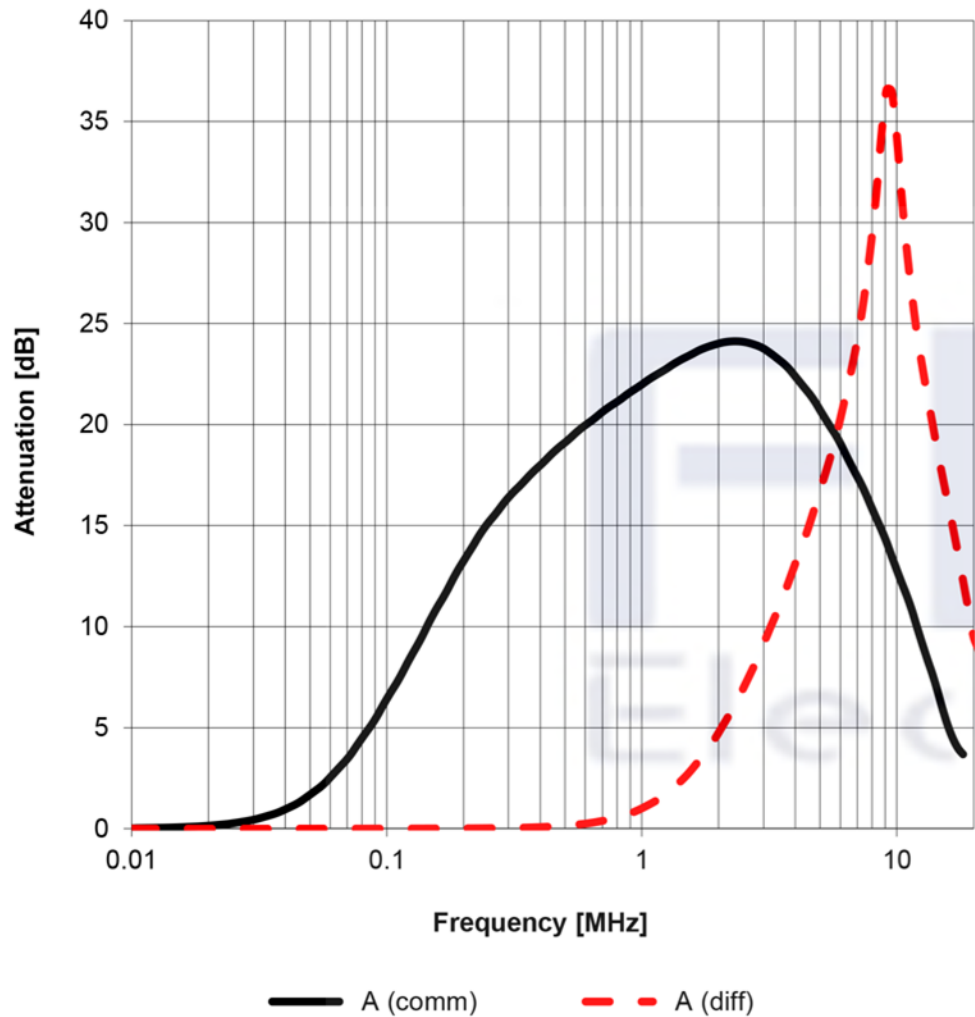
SIZE  
XL

REVISION  
001.001

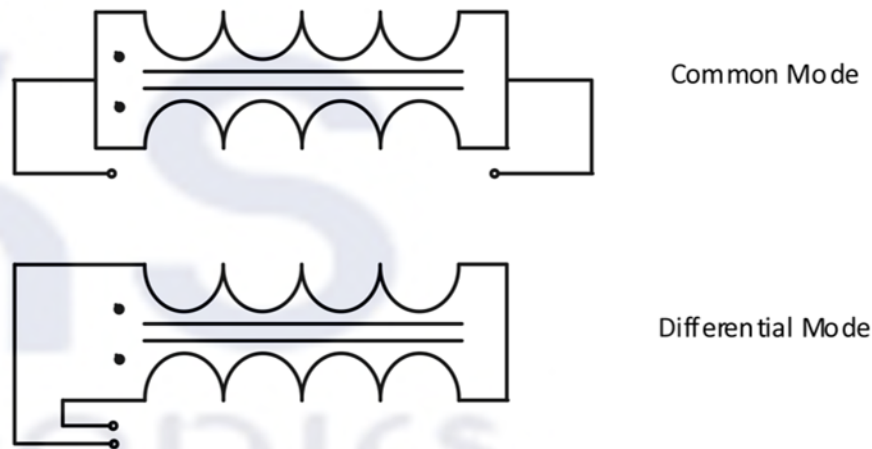
STATUS  
Valid

ORDER CODE  
**FKS744830010185**

Typical Insertion Loss:

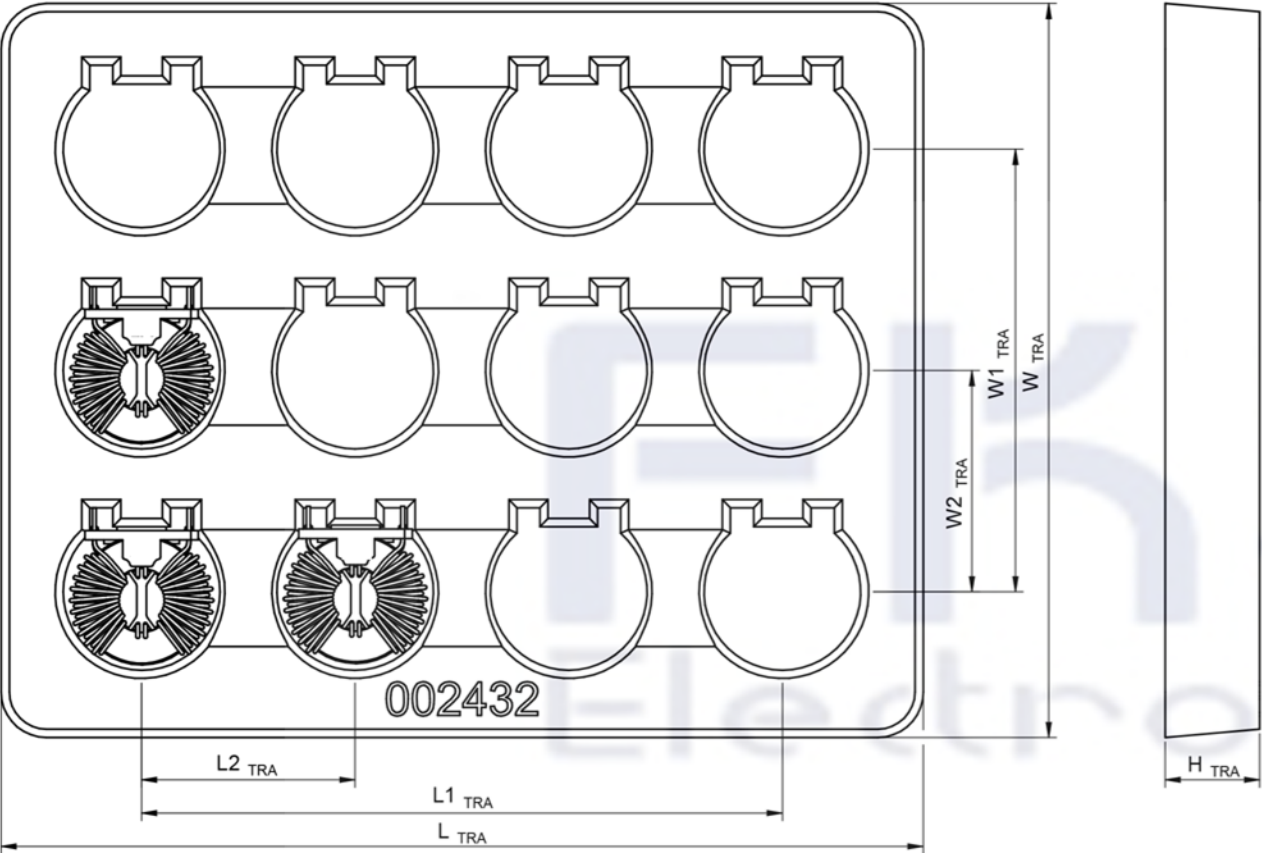


Test Setup:

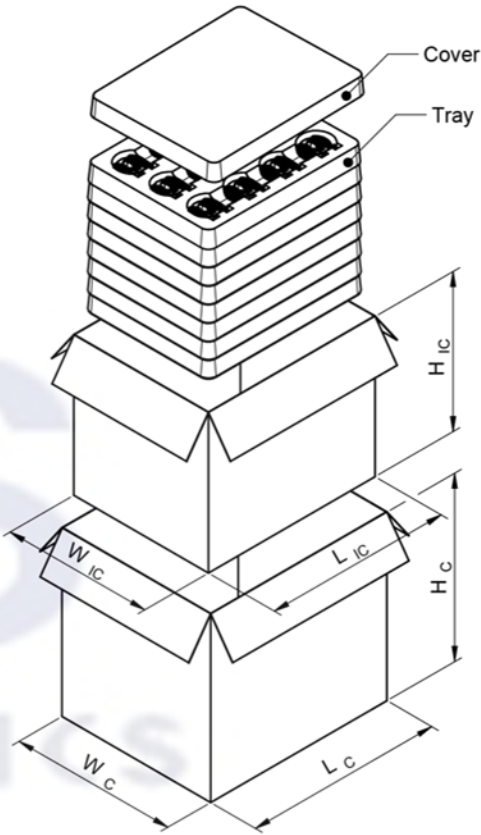


|                                                                                                                                                                                                                                                                         |  |  |                                                     |                     |                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------|--|
| 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>1 HV Common Mode<br>Power Line Choke |                     | ORDER CODE<br>FKS744830010185                                                                                 |  |
|                                                                                                                                                                                                                                                                         |  |  | SIZE<br>XL                                          | REVISION<br>001.001 | STATUS<br>Valid                                                                                               |  |

Packaging Specification - Tray and Carton: [mm]



| L <sub>TRA</sub> (mm) | W <sub>TRA</sub> (mm) | H <sub>TRA</sub> (mm) | Packaging Unit | Material |
|-----------------------|-----------------------|-----------------------|----------------|----------|
| typ.                  | typ.                  | typ.                  | PCS.           |          |
| 245,00                | 195,00                | 25,00                 | 12             | PET      |



| L <sub>IC</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) | No. of tray | No. of inner carton | Packaging Unit | Material |
|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|-------------|---------------------|----------------|----------|
| typ.                 | typ.                 | typ.                 | typ.                | typ.                | typ.                | PCS.        | PCS.                | PCS.           |          |
| 260                  | 210                  | 217                  | 275                 | 232                 | 255                 | 8           | 1                   | 96             | Paper    |

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FKS

Electronics

GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION METHOD

DESCRIPTION  
**HV Common Mode  
Power Line Choke**

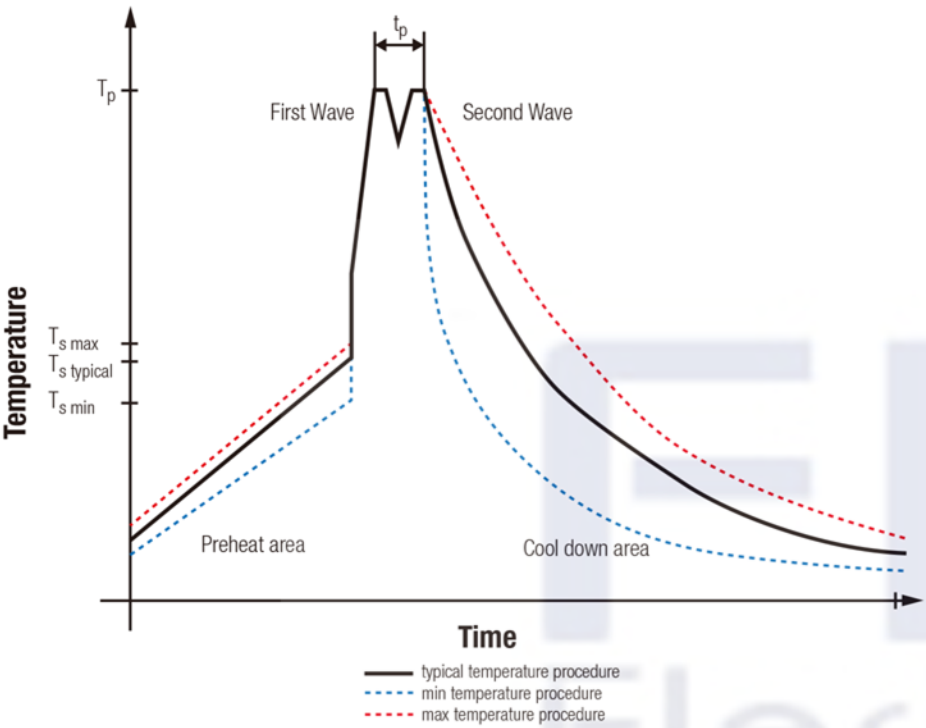
ORDER CODE  
FKS744830010185

SIZE  
XL

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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Electronics

GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION  
METHOD

DESCRIPTION  
1  
**HV Common Mode  
Power Line Choke**

ORDER CODE  
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SIZE  
XL

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STATUS  
Valid