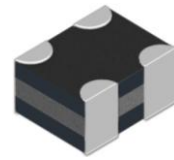


Multilayer Chip Common Mode Filter– SDMM Series

Operating Temp. : -40°C~+85°C



FEATURES

- Effective for suppressing common mode noise at high frequency
- Excellent solderability characteristics
- Small size & low profile (0.85*0.65*0.40 mm)
- Multilayer type SMD component based on LTCC technology

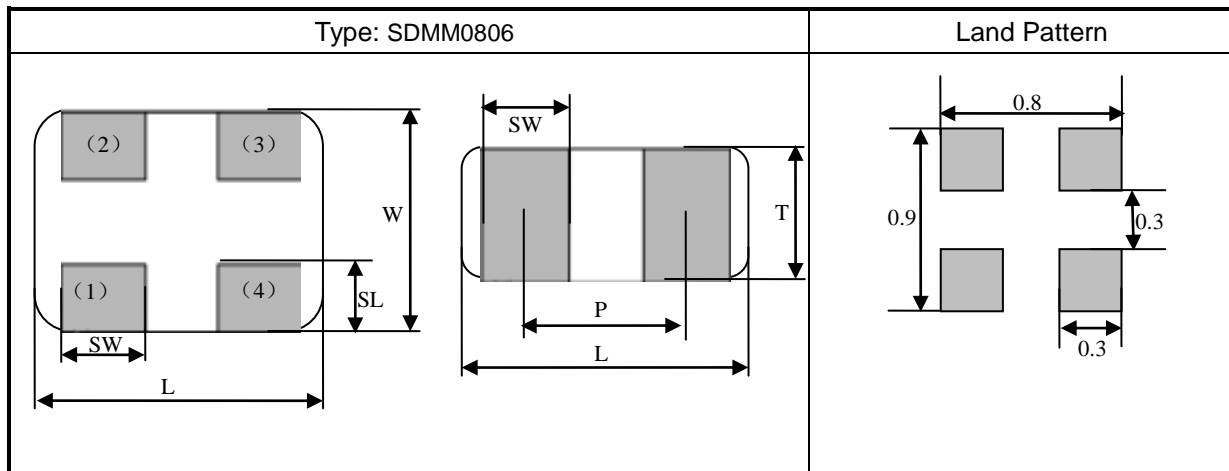
APPLICATIONS

- Common mode noise suppression of high speed differential signal lines, such as MIPI, USB, MHL, HDMI in mobile phone, tablet PC, TV etc.

PRODUCT IDENTIFICATION

| <u>SDMM</u> | <u>0806</u> | <u>H</u> | <u>-2</u> | <u>900</u> | <u>T</u> | | | | | | | | | | | | | | | | |
|--|--|-----------------|-----------|------------|------------------------------------|---|--|--------------------------------|--|---------|---------------|--|----|--------------|----|---|--|---------|--|---|-------------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | | | | | | | | | | | | | | | | |
| ① | ② | | ⑤ | | ③ | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><th colspan="2">Type</th></tr> <tr><td>SDMM</td><td>Multilayer Chip Common Mode Filter</td></tr> </table> | | Type | | SDMM | Multilayer Chip Common Mode Filter | <table border="1"> <tr><th colspan="2">External Dimensions (LxW) (mm)</th></tr> <tr><td>0806</td><td>0.85x0.65</td></tr> </table> | | External Dimensions (LxW) (mm) | | 0806 | 0.85x0.65 | <table border="1"> <tr><th colspan="2">Feature Type</th></tr> <tr><td>H</td><td>For High-Speed Differential Signal Lines</td></tr> <tr><td>U</td><td>For Ultra high speed Differential Signal Lines</td></tr> </table> | | Feature Type | | H | For High-Speed Differential Signal Lines | U | For Ultra high speed Differential Signal Lines | | |
| Type | | | | | | | | | | | | | | | | | | | | | |
| SDMM | Multilayer Chip Common Mode Filter | | | | | | | | | | | | | | | | | | | | |
| External Dimensions (LxW) (mm) | | | | | | | | | | | | | | | | | | | | | |
| 0806 | 0.85x0.65 | | | | | | | | | | | | | | | | | | | | |
| Feature Type | | | | | | | | | | | | | | | | | | | | | |
| H | For High-Speed Differential Signal Lines | | | | | | | | | | | | | | | | | | | | |
| U | For Ultra high speed Differential Signal Lines | | | | | | | | | | | | | | | | | | | | |
| ④ | | ⑤ | | ⑥ | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><th colspan="2">Number of Lines</th></tr> <tr><td>2</td><td>2 Lines</td></tr> </table> | | Number of Lines | | 2 | 2 Lines | <table border="1"> <tr><th colspan="2">Common Mode Impedance (Ω)</th></tr> <tr><th>Example</th><th>Nominal Value</th></tr> <tr><td>350</td><td>35</td></tr> <tr><td>900</td><td>90</td></tr> </table> | | Common Mode Impedance (Ω) | | Example | Nominal Value | 350 | 35 | 900 | 90 | <table border="1"> <tr><th colspan="2">Packing</th></tr> <tr><td>T</td><td>Tape & Reel</td></tr> </table> | | Packing | | T | Tape & Reel |
| Number of Lines | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 Lines | | | | | | | | | | | | | | | | | | | | |
| Common Mode Impedance (Ω) | | | | | | | | | | | | | | | | | | | | | |
| Example | Nominal Value | | | | | | | | | | | | | | | | | | | | |
| 350 | 35 | | | | | | | | | | | | | | | | | | | | |
| 900 | 90 | | | | | | | | | | | | | | | | | | | | |
| Packing | | | | | | | | | | | | | | | | | | | | | |
| T | Tape & Reel | | | | | | | | | | | | | | | | | | | | |

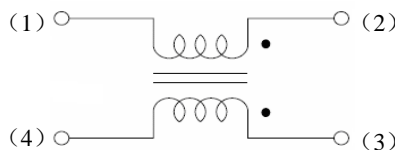
SHAPE, DIMENSIONS AND LAND-PATTERN



Unit: mm [inch]

| Type | L | W | T | SL | SW | P |
|----------|--------------------------|--------------------------|--------------------------|---------------------------------------|--------------------------|--------------------------|
| SDMM0806 | 0.85±0.05 [.033±.002] | 0.65±0.05 [.026±.002] | 0.40±0.05 [.016±.002] | 0.20+0.05/-0.10 [.008+.002/-0.004] | 0.27±0.05 [.011±.002] | 0.50±0.05 [.020±.002] |

EQUIVALENT CIRCUIT



SPECIFICATIONS

SDMM0806H Series

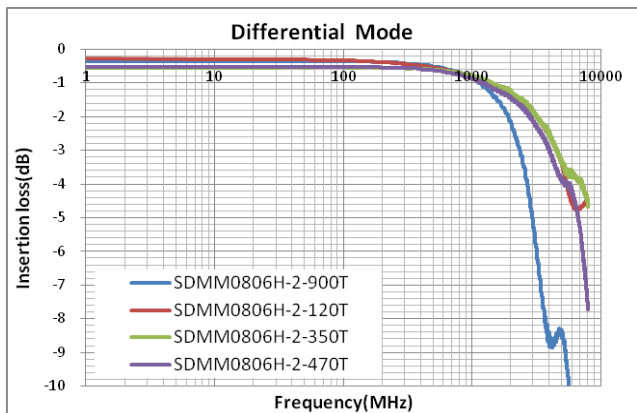
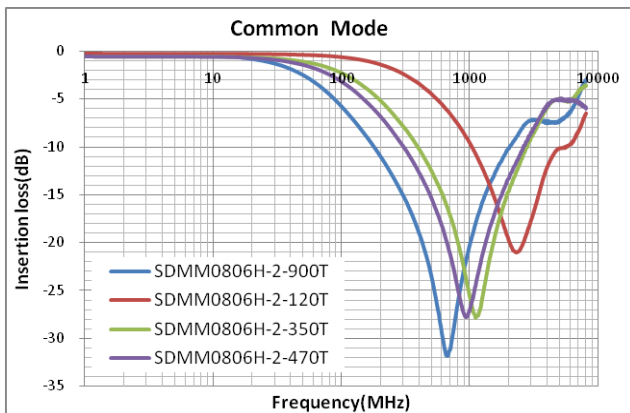
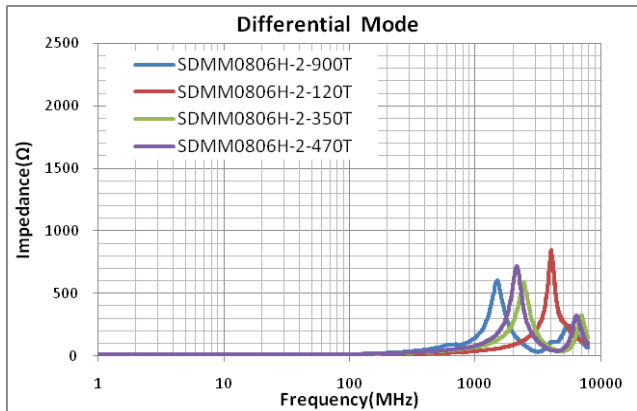
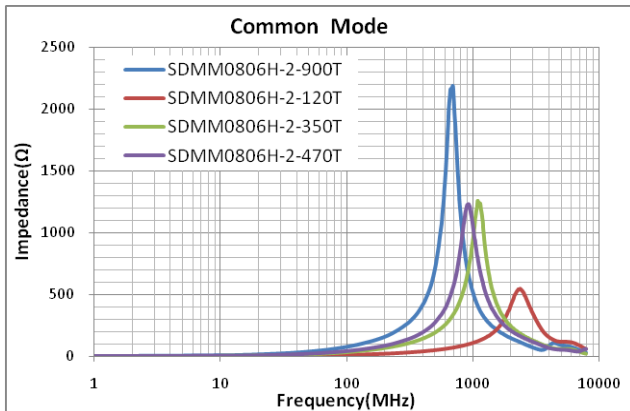
| Part Number | Common Mode Impedance @ 100MHz | Max. DC Resistance | Max. Rated Current | Rated Voltage | Withstand Voltage | Min. Insulation Resistance |
|------------------|--------------------------------|--------------------|--------------------|-----------------|-------------------|----------------------------|
| Units | Ω | Ω | mA | Volts | Volts | M Ω |
| Symbol | Z | DCR | I _r | V _{DC} | V _P | IR |
| SDMM0806H-2-120T | 12±5 | 2.5 | 130 | 5 | 12.5 | 100 |
| SDMM0806H-2-350T | 35±20% | 3.0 | 100 | 5 | 12.5 | 100 |
| SDMM0806H-2-470T | 47±20% | 3.5 | 100 | 5 | 12.5 | 100 |
| SDMM0806H-2-900T | 90±20% | 4.0 | 100 | 5 | 12.5 | 100 |

SDMM0806U Series

| Part Number | Common Mode Impedance @ 100MHz | Max. DC Resistance | Max. Rated Current | Rated Voltage | Min. Insulation Resistance | Cutoff Frequency (typ.) |
|------------------|--------------------------------|--------------------|--------------------|-----------------|----------------------------|-------------------------|
| Units | Ω | Ω | mA | Volts | M Ω | GHz |
| Symbol | Z | DCR | I _r | V _{DC} | IR | f ₀ |
| SDMM0806U-2-120T | 12±5 | 2.5 | 130 | 5 | 100 | >8 |
| SDMM0806U-2-350T | 35±20% | 3.5 | 100 | 5 | 100 | >6 |
| SDMM0806U-2-470T | 47±20% | 4.0 | 100 | 5 | 100 | 6 |
| SDMM0806U-2-900T | 90±20% | 4.5 | 100 | 5 | 100 | 3.5 |

ELECTRICAL CHARACTERISTICS

SDMM0806H Series



ELECTRICAL CHARACTERISTICS

SDMM0806U Series

