

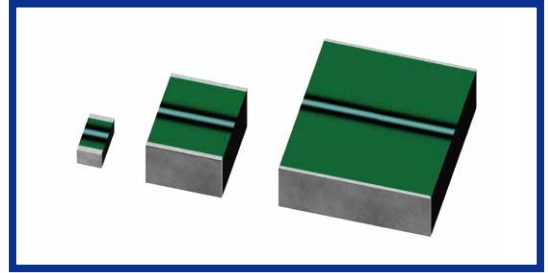
MU シリーズ
SERIES

UPGRADE

標準品
Standard

- ・面実装品。 Surface-mounted device.
- ・無極性コンデンサ Non-polar capacitor.
- ・鉛フリーフローはんだ付けが可能。 Lead free reflow soldering is available.
- ・フローはんだ付けが可能。 Flow soldering is available.

RoHS
compliance



◆規格表 / SPECIFICATIONS

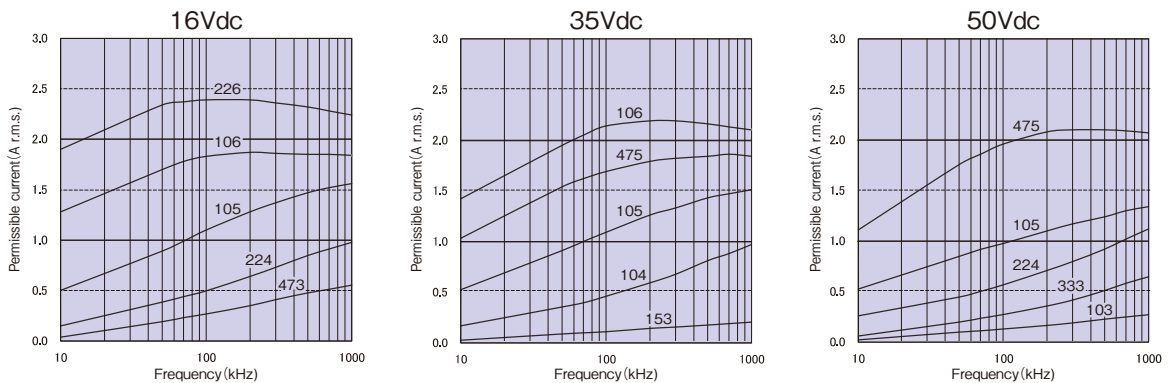
| 項目 Items | 特性 Characteristics | | |
|--|--|-----------------------|--|
| カテゴリ温度範囲 Category Temperature Range | -55~+125°C | | |
| 定格電圧範囲 Rated Voltage Range | 16~63Vdc | 100Vdc | 200Vdc |
| 静電容量範囲 Capacitance Range | 0.0001~22μF (101~226) | 0.001~0.1μF (102~104) | 0.0001~0.1μF (101~104) |
| 静電容量許容差 Capacitance Tolerance | ±10%(K), ±20%(M) | | ±20%(M) |
| 損失角の正接 (tanδ) Dissipation Factor | 1.5%以下 (1kHz±20%, 5Vrms以下) 1.5% or less (1kHz±20%, 5Vrms or less) | | |
| 耐電圧 Voltage Proof | 定格電圧の150%を1分間または175%を1~5秒間印加後、異常の無いこと。 Nothing abnormal shall be found, when applying 150% of the rated voltage for 1 minute or 175% of the rated voltage for 1 second to 5 seconds. | | |
| 絶縁抵抗 Insulation Resistance | C≤0.1μF:3000MΩ以上 (定格電圧印加1分後) C≤0.1μF:3000MΩ or more (After 1 minute application of rated voltage) C>0.1μF:300MΩ・μF以上 (定格電圧印加1分後) C>0.1μF:300MΩ・μF or more (After 1 minute application of rated voltage) | | 1000MΩ以上 (定格電圧印加1分後) 1000MΩ or more (After 1 minute application of rated voltage) |

◆呼称方法 / PART NUMBER

| | | | | | | |
|-----------------------|-----------------|---------------------|------------------------------|---------------|--------------------|---------------------|
| □□□ | MU | □□□ | □ | □□□ | □□ | □□□□ |
| 定格電圧 Rated Voltage | シリーズ名 Series | 静電容量 Capacitance | 許容差 Capacitance Tolerance | 副記号 Option | テーピング記号 TP code | チップサイズ Chip Size |
| ↓ | | ↓ | ↓ | | | ↓ |

| 記号 Code | 定格電圧 Rated Voltage | 記号 Code | 静電容量 Capacitance | 記号 Code | 許容差 Tolerance | 記号 Code | チップサイズ Chip Size |
|------------|-----------------------|------------|---------------------|------------|------------------|------------|---------------------|
| 16 | 16Vdc | 101 | 0.0001μF | K | ±10% | 1608 | 1.6×0.8mm |
| 25 | 25Vdc | 682 | 0.0068μF | M | ±20% | 2012 | 2.0×1.25mm |
| 35 | 35Vdc | 153 | 0.015μF | | | 3216 | 3.2×1.6mm |
| 50 | 50Vdc | 224 | 0.22μF | | | 3225 | 3.2×2.5mm |
| 63 | 63Vdc | 335 | 3.3μF | | | 4532 | 4.5×3.2mm |
| 100 | 100Vdc | 226 | 22μF | | | 5750 | 5.7×5.0mm |
| 200 | 200Vdc | | | | | 3245 | 3.2×4.5mm |

◆周波数に対する許容電流 / PERMISSIBLE CURRENT FOR FREQUENCY



◆標準品一覧表 / STANDARD SIZE

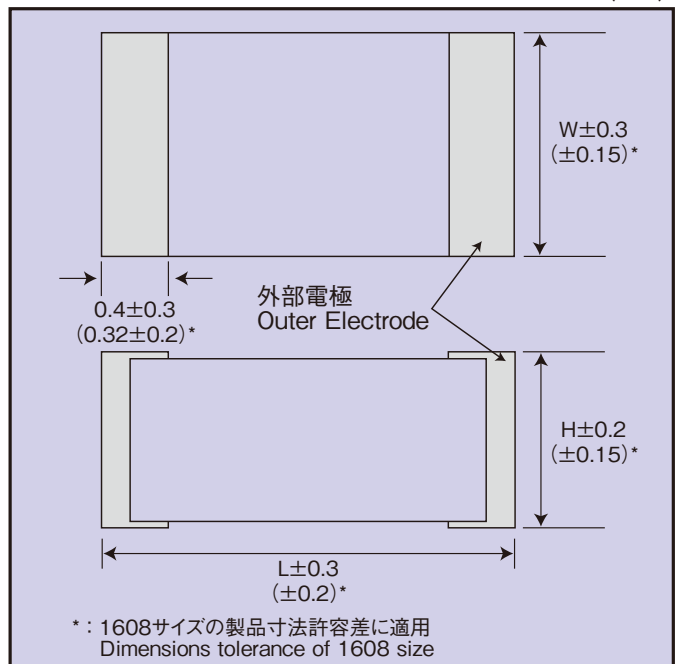
□: 静電容量許容差記号 / Tolerance

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size | | | 品番 Part No. |
|--------------------------------|-----------------------------------|-----------|--------|----------------|----------------|
| | | L (mm) | W (mm) | H (mm) | |
| 16 | 0.047 | 1.6 | 0.8 | 0.65 | 16MU473□Y11608 |
| | 0.15 | 2.0 | 1.25 | 1.0 | 16MU154□Z22012 |
| | 0.22 | 2.0 | 1.25 | 1.0 | 16MU224□Z22012 |
| | 1.0 | 3.2 | 1.6 | 1.4 | 16MU105□A23216 |
| | 1.5 | 3.2 | 1.6 | 1.4 | 16MU155□A23216 |
| | 2.2 | 3.2 | 2.5 | 1.8 | 16MU225□B23225 |
| | 3.3 | 3.2 | 2.5 | 2.0 | 16MU335□B33225 |
| | 4.7 | 4.5 | 3.2 | 1.4 | 16MU475□C14532 |
| | 6.8 | 4.5 | 3.2 | 1.8 | 16MU685□C24532 |
| | 10 | 4.5 | 3.2 | 2.6 | 16MU106□C44532 |
| | 15 | 5.7 | 5.0 | 1.8 | 16MU156□D15750 |
| | 22 | 5.7 | 5.0 | 2.6 | 16MU226□D35750 |
| 25 | 0.033 | 1.6 | 0.8 | 0.65 | 25MU333□Y11608 |
| | 0.10 | 2.0 | 1.25 | 1.0 | 25MU104□Z22012 |
| | 0.15 | 2.0 | 1.25 | 1.0 | 25MU154□Z22012 |
| | 0.68 | 3.2 | 1.6 | 1.4 | 25MU684□A23216 |
| | 1.0 | 3.2 | 1.6 | 1.4 | 25MU105□A23216 |
| | 1.5 | 3.2 | 2.5 | 2.0 | 25MU155□B33225 |
| | 2.2 | 3.2 | 2.5 | 1.8 | 25MU225□B23225 |
| | 3.3 | 4.5 | 3.2 | 1.4 | 25MU335□C14532 |
| | 4.7 | 4.5 | 3.2 | 1.8 | 25MU475□C24532 |
| | 6.8 | 4.5 | 3.2 | 2.6 | 25MU685□C44532 |
| | 10 | 5.7 | 5.0 | 1.8 | 25MU106□D15750 |
| | 15 | 5.7 | 5.0 | 2.6 | 25MU156□D35750 |
| 35 | 0.015 | 1.6 | 0.8 | 0.65 | 35MU153□Y11608 |
| | 0.022 | 1.6 | 0.8 | 0.65 | 35MU223□Y11608 |
| | 0.047 | 2.0 | 1.25 | 1.0 | 35MU473□Z22012 |
| | 0.068 | 2.0 | 1.25 | 0.8 | 35MU683□Z12012 |
| | 0.10 | 2.0 | 1.25 | 1.0 | 35MU104□Z22012 |
| | 0.47 | 3.2 | 1.6 | 1.0 | 35MU474□A13216 |
| | 0.68 | 3.2 | 1.6 | 1.4 | 35MU684□A23216 |
| | 1.0 | 3.2 | 2.5 | 1.4 | 35MU105□B13225 |
| | 1.5 | 3.2 | 2.5 | 2.0 | 35MU155□B33225 |
| | 2.2 | 4.5 | 3.2 | 1.4 | 35MU225□C14532 |
| | 3.3 | 4.5 | 3.2 | 1.8 | 35MU335□C24532 |
| | 4.7 | 4.5 | 3.2 | 2.6 | 35MU475□C44532 |
| 6.8 | 5.7 | 5.0 | 1.8 | 35MU685□D15750 | |
| 10 | 5.7 | 5.0 | 2.6 | 35MU106□D35750 | |
| 50 | 0.00010 | 1.6 | 0.8 | 0.65 | 50MU101□Y11608 |
| | 0.00015 | 1.6 | 0.8 | 0.65 | 50MU151□Y11608 |
| | 0.00022 | 1.6 | 0.8 | 0.65 | 50MU221□Y11608 |
| | 0.00033 | 1.6 | 0.8 | 0.65 | 50MU331□Y11608 |
| | 0.00047 | 1.6 | 0.8 | 0.65 | 50MU471□Y11608 |
| | 0.00068 | 1.6 | 0.8 | 0.65 | 50MU681□Y11608 |
| | 0.010 | 1.6 | 0.8 | 0.65 | 50MU102□Y11608 |
| | 0.015 | 1.6 | 0.8 | 0.65 | 50MU152□Y11608 |
| | 0.022 | 1.6 | 0.8 | 0.65 | 50MU222□Y11608 |
| | 0.033 | 1.6 | 0.8 | 0.65 | 50MU332□Y11608 |
| | 0.047 | 1.6 | 0.8 | 0.65 | 50MU472□Y11608 |
| | 0.068 | 1.6 | 0.8 | 0.65 | 50MU682□Y11608 |
| 0.10 | 1.6 | 0.8 | 0.65 | 50MU103□Y11608 | |
| 0.033 | 2.0 | 1.25 | 1.0 | 50MU333□Z22012 | |
| 0.047 | 2.0 | 1.25 | 1.0 | 50MU473□Z22012 | |
| 0.10 | 3.2 | 1.6 | 1.0 | 50MU104□A13216 | |
| 0.15 | 3.2 | 1.6 | 1.0 | 50MU154□A13216 | |
| 0.22 | 3.2 | 1.6 | 1.0 | 50MU224□A13216 | |
| 0.33 | 3.2 | 1.6 | 1.4 | 50MU334□A23216 | |
| 0.47 | 3.2 | 2.5 | 1.4 | 50MU474□B13225 | |
| 0.68 | 3.2 | 2.5 | 1.8 | 50MU684□B23225 | |
| 1.0 | 4.5 | 3.2 | 1.4 | 50MU105□C14532 | |
| 1.5 | 4.5 | 3.2 | 1.8 | 50MU155□C24532 | |
| 2.2 | 4.5 | 3.2 | 2.6 | 50MU225□C44532 | |
| 3.3 | 5.7 | 5.0 | 1.8 | 50MU335□D15750 | |
| 4.7 | 5.7 | 5.0 | 2.6 | 50MU475□D35750 | |

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size | | | 品番 Part No. |
|--------------------------------|-----------------------------------|-----------|--------|-----------------|-----------------|
| | | L (mm) | W (mm) | H (mm) | |
| 63 | 0.00010 | 2.0 | 1.25 | 0.8 | 63MU101□Z12012 |
| | 0.00015 | 2.0 | 1.25 | 0.8 | 63MU151□Z12012 |
| | 0.00022 | 2.0 | 1.25 | 0.8 | 63MU221□Z12012 |
| | 0.00033 | 2.0 | 1.25 | 0.8 | 63MU331□Z12012 |
| | 0.00047 | 2.0 | 1.25 | 0.8 | 63MU471□Z12012 |
| | 0.00068 | 2.0 | 1.25 | 0.8 | 63MU681□Z12012 |
| | 0.0010 | 2.0 | 1.25 | 0.8 | 63MU102□Z12012 |
| | 0.0015 | 2.0 | 1.25 | 0.8 | 63MU152□Z12012 |
| | 0.0022 | 2.0 | 1.25 | 0.8 | 63MU222□Z12012 |
| | 0.0033 | 2.0 | 1.25 | 0.8 | 63MU332□Z12012 |
| | 0.0047 | 2.0 | 1.25 | 0.8 | 63MU472□Z12012 |
| | 0.0068 | 2.0 | 1.25 | 0.8 | 63MU682□Z12012 |
| | 0.010 | 2.0 | 1.25 | 0.8 | 63MU103□Z12012 |
| | 0.015 | 2.0 | 1.25 | 0.8 | 63MU153□Z12012 |
| | 0.022 | 2.0 | 1.25 | 0.8 | 63MU223□Z12012 |
| | 0.033 | 2.0 | 1.25 | 1.0 | 63MU333□Z22012 |
| | 0.047 | 3.2 | 1.6 | 1.0 | 63MU473□A13216 |
| | 0.068 | 3.2 | 1.6 | 1.0 | 63MU683□A13216 |
| | 0.10 | 3.2 | 1.6 | 1.0 | 63MU104□A13216 |
| | 0.15 | 3.2 | 1.6 | 1.0 | 63MU154□A13216 |
| | 0.22 | 3.2 | 1.6 | 1.4 | 63MU224□A23216 |
| | 0.33 | 3.2 | 2.5 | 1.4 | 63MU334□B13225 |
| | 0.47 | 3.2 | 2.5 | 1.8 | 63MU474□B23225 |
| | 0.68 | 4.5 | 3.2 | 1.4 | 63MU684□C14532 |
| 1.0 | 4.5 | 3.2 | 1.8 | 63MU105□C24532 | |
| 1.5 | 4.5 | 3.2 | 2.6 | 63MU155□C44532 | |
| 2.2 | 5.7 | 5.0 | 1.8 | 63MU225□D15750 | |
| 3.3 | 5.7 | 5.0 | 2.6 | 63MU335□D35750 | |
| 100 | 0.0010 | 3.2 | 1.6 | 1.0 | 100MU102□A13216 |
| | 0.0015 | 3.2 | 1.6 | 1.0 | 100MU152□A13216 |
| | 0.0022 | 3.2 | 1.6 | 1.0 | 100MU222□A13216 |
| | 0.0033 | 3.2 | 1.6 | 1.0 | 100MU332□A13216 |
| | 0.0047 | 3.2 | 1.6 | 1.0 | 100MU472□A13216 |
| | 0.0068 | 3.2 | 1.6 | 1.0 | 100MU682□A13216 |
| | 0.010 | 3.2 | 1.6 | 1.0 | 100MU103□A13216 |
| | 0.015 | 3.2 | 1.6 | 1.0 | 100MU153□A13216 |
| | 0.022 | 3.2 | 1.6 | 1.0 | 100MU223□A13216 |
| | 0.033 | 3.2 | 1.6 | 1.0 | 100MU333□A13216 |
| | 0.047 | 3.2 | 1.6 | 1.4 | 100MU473□A23216 |
| | 0.068 | 3.2 | 2.5 | 1.4 | 100MU683□B13225 |
| 0.10 | 3.2 | 2.5 | 1.8 | 100MU104□B23225 | |
| 200 | 0.00010 | 3.2 | 1.6 | 1.0 | 200MU101MA13216 |
| | 0.0010 | 3.2 | 1.6 | 1.0 | 200MU102MA13216 |
| | 0.010 | 3.2 | 1.6 | 1.4 | 200MU103MA23216 |
| | 0.10 | 3.2 | 4.5 | 2.6 | 200MU104MC43245 |

◆寸法図 / DIMENSIONS

(mm)


サイズ対比表 / Size Code Conversion

| mm | inch |
|------|------|
| 1608 | 0603 |
| 2012 | 0805 |
| 3216 | 1206 |
| 3225 | 1210 |
| 4532 | 1812 |
| 5750 | 2220 |
| 3245 | 1218 |