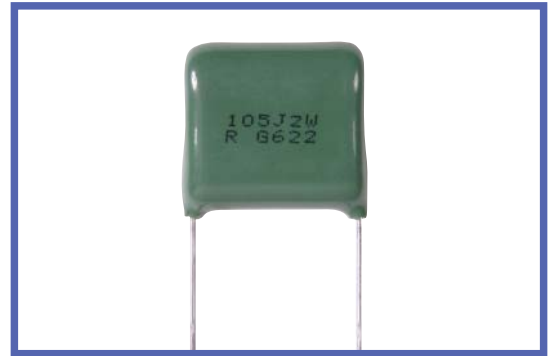


MMG SERIES

◆ FEATURES

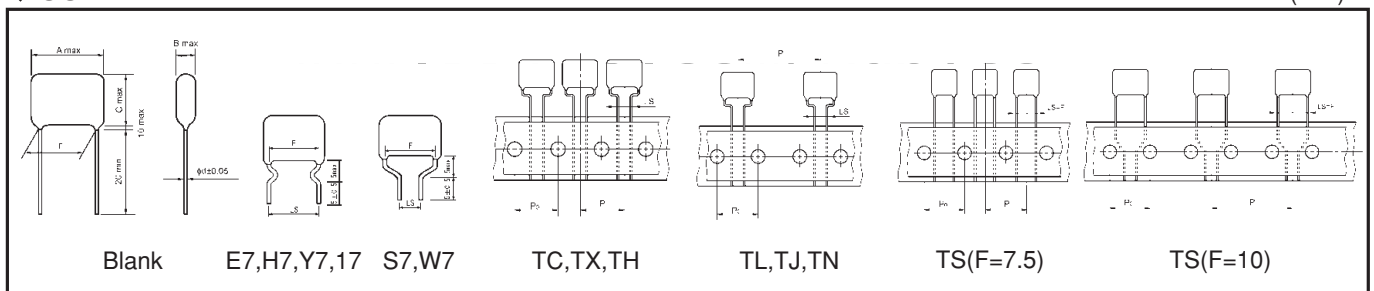
- Ultra small and light.
- Reliability is excellent because these capacitors provide self-healing.
- Coated with flame-retardant (UL94 V-0) epoxy resin.
- RoHS compliance.



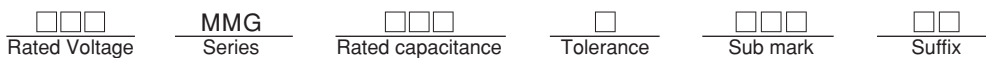
◆ SPECIFICATIONS

| | |
|---------------------------------|---|
| Category temperature | -40 ~ +105°C (Derate the voltage as shown in the Fig2 at P233 when using the capacitor beyond 85°C.) |
| Rated voltage (U _R) | 250VDC, 450VDC, 500VDC, 630VDC |
| Capacitance tolerance | ±5%(J), ±10%(K) |
| tanδ | 0.01max at 1kHz |
| Voltage proof | U _R ×150% 60s |
| Insulation resistance | 0.33μF ≧ :15000MΩmin 0.33μF < :5000ΩFmin |
| Reference standard | JIS C 5101-2, JIS C 5101-1 |

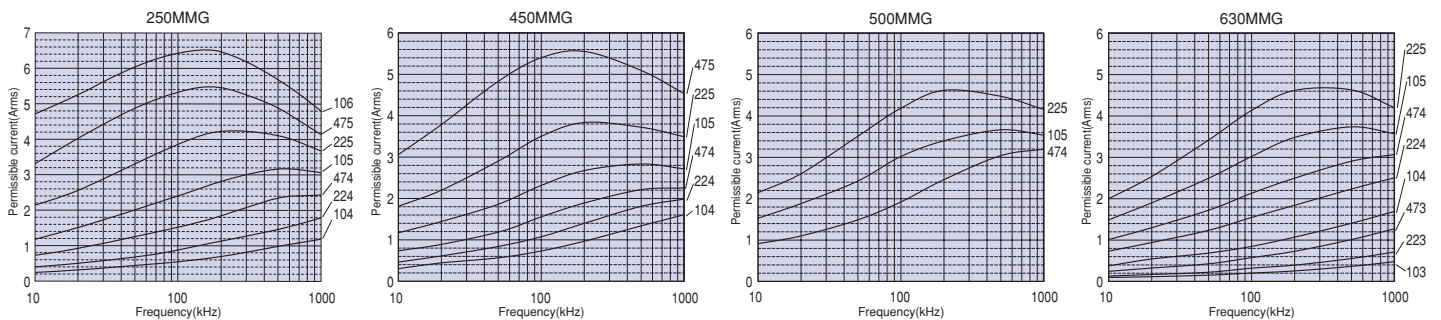
◆ OUTLINE



◆ PART NUMBER



◆ PERMISSIBLE CURRENT FOR FREQUENCY



◆ STANDARD SIZE
 : Tolerance ** : Suffix

| RATED VOLTAGE | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | | | Part No. |
|---------------|---------|-----------------|------|------|--------------|--------------|-----|----------------------------------|--------|-------------------------------|--------|--------|-----|---------------------------------------|---------------------------------------|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | | | |
| | | A | B | C | F±1.0 | LS±0.5 | d | Bag | Carton | TC | TX, TH | TL, TJ | TN | TS | |
| 250 VDC | 0.1 | 10.0 | 5.5 | 9.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,000 | - | - | - | 1,000 | 250MMG104 <input type="checkbox"/> ** |
| | 0.12 | 10.0 | 5.5 | 10.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 5,000 | 1,000 | - | - | - | 1,000 | 250MMG124 <input type="checkbox"/> ** |
| | 0.15 | 10.0 | 5.5 | 10.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 5,000 | 1,000 | - | - | - | 1,000 | 250MMG154 <input type="checkbox"/> ** |
| | 0.18 | 10.0 | 6.0 | 10.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 5,000 | 1,000 | - | - | - | 1,000 | 250MMG184 <input type="checkbox"/> ** |
| | 0.22 | 10.0 | 6.5 | 10.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 4,000 | 1,000 | - | - | - | 1,000 | 250MMG224 <input type="checkbox"/> ** |
| | 0.27 | 10.0 | 6.5 | 12.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 4,000 | - | - | - | - | - | 250MMG274 <input type="checkbox"/> ** |
| | 0.33 | 10.0 | 6.5 | 13.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 3,000 | - | - | - | - | - | 250MMG334 <input type="checkbox"/> ** |
| | 0.39 | 12.8 | 6.5 | 12.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 3,000 | - | - | - | - | - | 250MMG394 <input type="checkbox"/> ** |
| | 0.47 | 12.8 | 6.5 | 14.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | - | - | - | - | 250MMG474 <input type="checkbox"/> ** |
| | 0.56 | 12.8 | 7.0 | 14.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | - | - | - | - | 250MMG564 <input type="checkbox"/> ** |
| | 0.68 | 12.8 | 7.0 | 16.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | - | - | - | - | 250MMG684 <input type="checkbox"/> ** |
| | 0.82 | 12.8 | 7.5 | 17.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | - | - | - | - | 250MMG824 <input type="checkbox"/> ** |
| | 1 | 12.8 | 8.5 | 17.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 1,000 | - | - | - | - | - | 250MMG105 <input type="checkbox"/> ** |
| | 1.2 | 12.8 | 9.5 | 18.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 1,000 | - | - | - | - | - | 250MMG125 <input type="checkbox"/> ** |
| | 1.5 | 12.8 | 10.5 | 20.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 1,000 | - | - | - | - | - | 250MMG155 <input type="checkbox"/> ** |
| | 1.8 | 17.8 | 8.5 | 18.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | - | - | - | 250MMG185 <input type="checkbox"/> ** |
| | 2.2 | 17.8 | 9.5 | 19.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | - | - | - | 250MMG225 <input type="checkbox"/> ** |
| | 2.7 | 17.8 | 10.5 | 20.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | - | - | - | 250MMG275 <input type="checkbox"/> ** |
| | 3.3 | 17.8 | 12.0 | 21.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 800 | - | - | - | - | - | 250MMG335 <input type="checkbox"/> ** |
| | 3.9 | 17.8 | 13.0 | 22.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 800 | - | - | - | - | - | 250MMG395 <input type="checkbox"/> ** |
| 4.7 | 17.8 | 14.5 | 24.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 500 | - | - | - | - | - | 250MMG475 <input type="checkbox"/> ** | |
| 5.6 | 25.5 | 12.0 | 23.0 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 250MMG565 <input type="checkbox"/> ** | |
| 6.8 | 25.5 | 13.5 | 25.0 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 250MMG685 <input type="checkbox"/> ** | |
| 8.2 | 25.5 | 15.0 | 26.0 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 250MMG825 <input type="checkbox"/> ** | |
| 10 | 25.5 | 16.5 | 28.0 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 250MMG106 <input type="checkbox"/> ** | |
| 450 VDC | 0.1 | 10.0 | 5.5 | 10.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,500 | - | - | - | 1,500 | 450MMG104 <input type="checkbox"/> ** |
| | 0.12 | 12.8 | 5.0 | 10.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 5,000 | - | 1,000 | 500 | - | 500 | 450MMG124 <input type="checkbox"/> ** |
| | 0.15 | 12.8 | 5.0 | 10.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 5,000 | - | 1,000 | 500 | - | 500 | 450MMG154 <input type="checkbox"/> ** |
| | 0.18 | 12.8 | 6.0 | 10.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 4,000 | - | 1,000 | 500 | - | 500 | 450MMG184 <input type="checkbox"/> ** |
| | 0.22 | 12.8 | 6.0 | 11.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 4,000 | - | 1,000 | 500 | - | 500 | 450MMG224 <input type="checkbox"/> ** |
| | 0.27 | 12.8 | 6.0 | 13.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 4,000 | - | 1,000 | 500 | - | 500 | 450MMG274 <input type="checkbox"/> ** |
| | 0.33 | 12.8 | 7.0 | 14.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 3,000 | - | 1,000 | 500 | - | 500 | 450MMG334 <input type="checkbox"/> ** |
| | 0.39 | 12.8 | 7.5 | 14.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | 500 | 500 | - | 500 | 450MMG394 <input type="checkbox"/> ** |
| | 0.47 | 12.8 | 8.0 | 15.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | 500 | 500 | - | 500 | 450MMG474 <input type="checkbox"/> ** |
| | 0.56 | 17.8 | 6.5 | 14.0 | 15.0 | 5.0/7.5/15.0 | 0.6 | 100 | 2,000 | - | - | 500 | 500 | - | 450MMG564 <input type="checkbox"/> ** |
| | 0.68 | 17.8 | 6.5 | 15.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 2,000 | - | - | 500 | 500 | - | 450MMG684 <input type="checkbox"/> ** |
| | 0.82 | 17.8 | 7.5 | 16.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 2,000 | - | - | 500 | 400 | - | 450MMG824 <input type="checkbox"/> ** |
| | 1 | 17.8 | 8.0 | 16.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 1,000 | - | - | 500 | 400 | - | 450MMG105 <input type="checkbox"/> ** |
| | 1.2 | 17.8 | 8.5 | 19.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | 400 | 400 | - | 450MMG125 <input type="checkbox"/> ** |
| | 1.5 | 25.5 | 8.0 | 17.0 | 22.5 | 22.5 | 0.8 | 200 | 1,000 | - | - | - | - | - | 450MMG155 <input type="checkbox"/> ** |
| | 1.8 | 25.5 | 8.5 | 18.0 | 22.5 | 22.5 | 0.8 | 200 | 1,000 | - | - | - | - | - | 450MMG185 <input type="checkbox"/> ** |
| | 2.2 | 25.5 | 9.5 | 19.5 | 22.5 | 22.5 | 0.8 | 200 | 800 | - | - | - | - | - | 450MMG225 <input type="checkbox"/> ** |
| | 2.7 | 25.5 | 10.5 | 21.5 | 22.5 | 22.5 | 0.8 | 200 | 800 | - | - | - | - | - | 450MMG275 <input type="checkbox"/> ** |
| | 3.3 | 25.5 | 11.5 | 22.5 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 450MMG335 <input type="checkbox"/> ** |
| | 3.9 | 25.5 | 12.5 | 23.5 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 450MMG395 <input type="checkbox"/> ** |
| 4.7 | 25.5 | 14.0 | 25.0 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 450MMG475 <input type="checkbox"/> ** | |

◆ STANDARD SIZE

□ : Tolerance ** : Suffix

| RATED VOLTAGE | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | | | | Part No. |
|---------------|---------|-----------------|------|------|-------|--------------|-----|----------------------------------|--------|-------------------------------|--------|--------|-----|--------------|--------------|----------|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | | | | |
| | | A | B | C | F±1.0 | LS±0.5 | d | Bag | Carton | TC | TX, TH | TL, TJ | TN | TS | | |
| 500 VDC | 0.47 | 12.8 | 10.0 | 18.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 1,000 | - | 500 | 300 | - | 300 | 500MMG474□** | |
| | 0.56 | 17.8 | 8.5 | 16.5 | 15.0 | 5.0/7.5/15.0 | 0.6 | 100 | 1,000 | - | - | 400 | 300 | - | 500MMG564□** | |
| | 0.68 | 17.8 | 9.5 | 17.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 1,000 | - | - | 400 | 300 | - | 500MMG684□** | |
| | 0.82 | 17.8 | 10.0 | 18.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | 300 | 300 | - | 500MMG824□** | |
| | 1 | 17.8 | 11.0 | 19.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | 300 | 200 | - | 500MMG105□** | |
| | 1.2 | 17.8 | 13.0 | 19.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | - | - | - | 500MMG125□** | |
| | 1.5 | 25.5 | 11.0 | 19.0 | 22.5 | 22.5 | 0.8 | 200 | 800 | - | - | - | - | - | 500MMG155□** | |
| | 1.8 | 25.5 | 12.0 | 20.0 | 22.5 | 22.5 | 0.8 | 100 | 800 | - | - | - | - | - | 500MMG185□** | |
| 2.2 | 25.5 | 14.0 | 20.5 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 500MMG225□** | | |
| 630 VDC | 0.01 | 10.0 | 5.5 | 8.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,500 | - | - | - | 1,500 | 630MMG103□** | |
| | 0.012 | 10.0 | 5.5 | 9.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,500 | - | - | - | 1,500 | 630MMG123□** | |
| | 0.015 | 10.0 | 6.0 | 9.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,500 | - | - | - | 1,500 | 630MMG153□** | |
| | 0.018 | 10.0 | 6.5 | 10.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,000 | - | - | - | 1,000 | 630MMG183□** | |
| | 0.022 | 10.0 | 6.0 | 9.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 6,000 | 1,000 | - | - | - | 1,000 | 630MMG223□** | |
| | 0.027 | 10.0 | 6.0 | 9.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 5,000 | 1,000 | - | - | - | 1,000 | 630MMG273□** | |
| | 0.033 | 10.0 | 6.0 | 11.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 5,000 | 1,000 | - | - | - | 1,000 | 630MMG333□** | |
| | 0.039 | 10.0 | 6.5 | 11.0 | 7.5 | 5.0/7.5 | 0.6 | 200 | 4,000 | 1,000 | - | - | - | 1,000 | 630MMG393□** | |
| | 0.047 | 10.0 | 7.5 | 12.5 | 7.5 | 5.0/7.5 | 0.6 | 200 | 4,000 | 1,000 | - | - | - | 1,000 | 630MMG473□** | |
| | 0.056 | 12.8 | 6.0 | 11.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 4,000 | - | 1,000 | 500 | - | 500 | 630MMG563□** | |
| | 0.068 | 12.8 | 6.5 | 11.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 200 | 3,000 | - | 500 | 500 | - | 500 | 630MMG683□** | |
| | 0.082 | 12.8 | 7.0 | 11.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 3,000 | - | 500 | 500 | - | 500 | 630MMG823□** | |
| | 0.1 | 12.8 | 7.0 | 13.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | 500 | 500 | - | 500 | 630MMG104□** | |
| | 0.12 | 12.8 | 7.5 | 14.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | 500 | 400 | - | 400 | 630MMG124□** | |
| | 0.15 | 12.8 | 8.0 | 14.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | 500 | 400 | - | 400 | 630MMG154□** | |
| | 0.18 | 12.8 | 9.0 | 15.0 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 2,000 | - | 500 | 400 | - | 400 | 630MMG184□** | |
| | 0.22 | 12.8 | 10.0 | 16.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 100 | 1,000 | - | 500 | 400 | - | 400 | 630MMG224□** | |
| | 0.27 | 17.8 | 8.0 | 14.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 1,000 | - | - | 400 | 300 | - | 630MMG274□** | |
| | 0.33 | 17.8 | 8.5 | 15.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 100 | 1,000 | - | - | 400 | 300 | - | 630MMG334□** | |
| | 0.39 | 17.8 | 8.5 | 17.0 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | 400 | 300 | - | 630MMG394□** | |
| | 0.47 | 17.8 | 9.5 | 17.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | 300 | 300 | - | 630MMG474□** | |
| | 0.56 | 17.8 | 10.0 | 19.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 1,000 | - | - | 300 | 300 | - | 630MMG564□** | |
| | 0.68 | 17.8 | 11.0 | 20.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | 200 | 800 | - | - | 300 | 200 | - | 630MMG684□** | |
| | 0.82 | 25.5 | 9.0 | 19.5 | 22.5 | 22.5 | 0.8 | 200 | 800 | - | - | - | - | - | 630MMG824□** | |
| 1 | 25.5 | 10.0 | 20.5 | 22.5 | 22.5 | 0.8 | 200 | 800 | - | - | - | - | - | 630MMG105□** | | |
| 1.2 | 25.5 | 11.0 | 21.5 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 630MMG125□** | | |
| 1.5 | 25.5 | 12.5 | 22.5 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 630MMG155□** | | |
| 1.8 | 25.5 | 14.0 | 24.0 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 630MMG185□** | | |
| 2.2 | 25.5 | 15.5 | 25.5 | 22.5 | 22.5 | 0.8 | 100 | 500 | - | - | - | - | - | 630MMG225□** | | |