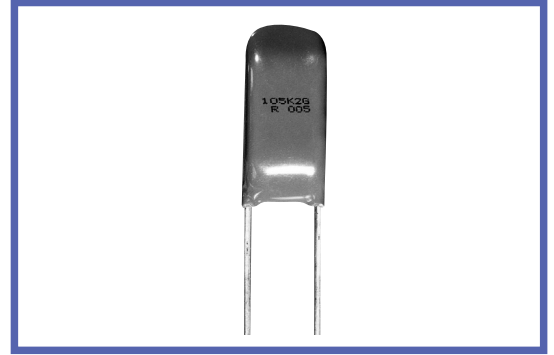


MMW-HP SERIES

◆ FEATURES

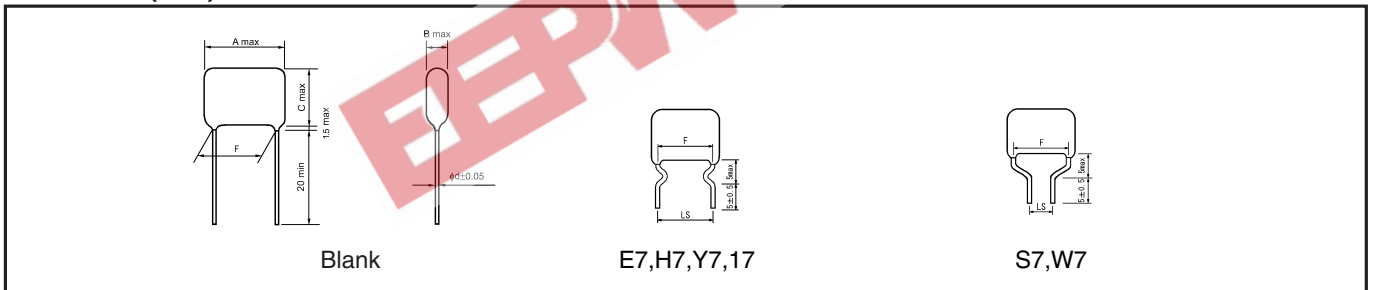
- High current application.
- For applications where high frequency, high current are required.
- Coated with flame-retardant (UL94 V-0) epoxy resin.



◆ SPECIFICATIONS

| | |
|---------------------------------|---|
| Category temperature | -40°C~+105°C (Derate the voltage as shown in the Fig2 at P188 when using the capacitor beyond 85°C.) |
| Rated voltage (U _R) | 100VDC, 200VDC, 400VDC, 450VDC, 630VDC |
| Capacitance tolerance | ±5%(J), ±10%(K), ±20%(M) |
| tan δ | 0.01max at 1kHz |
| Voltage proof | U _R ×150% 60s |
| Insulation resistance | 0.33μF ≥ :9000MΩmin 0.33μF < :3000ΩFmin |
| Reference standard | JIS C 5101-2, JIS C 5101-1 |

◆ OUTLINE(mm)



◆ PART NUMBER



| Symbol | U _R |
|--------|----------------|
| 100 | 100VDC |
| 200 | 200VDC |
| 400 | 400VDC |
| 450 | 450VDC |
| 630 | 630VDC |

| Symbol | Tolerance |
|--------|-----------|
| J | ± 5% |
| K | ±10% |
| M | ±20% |

| Symbol | Lead style | Symbol | Lead style |
|--------|--------------------------|--------|-------------------------|
| Blank | Long lead type | S7 | Lead forming cut LS=5.0 |
| E7 | Lead forming cut LS=7.5 | W7 | Lead forming cut LS=7.5 |
| H7 | Lead forming cut LS=10.0 | | |
| Y7 | Lead forming cut LS=15.0 | | |
| 17 | Lead forming cut LS=22.5 | | |

◆ DIMENSIONS AND QUANTITY
◆ RATED VOLTAGE : 100VDC

| Part No. | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | |
|----------------|---------|-----------------|------|------|-------|--------------|-----|----------------------------------|--------|-------------------------------|------|---|---|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | |
| | | A | B | C | F±1.5 | LS±0.5 | d | Bag | Carton | A | B, D | C | E |
| 100MMW475□HP** | 4.7 | 19.0 | 11.5 | 22.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 1,000 | - | - | - | - |
| 100MMW565□HP** | 5.6 | 19.0 | 12.5 | 23.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 800 | - | - | - | - |
| 100MMW685□HP** | 6.8 | 19.0 | 14.0 | 25.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 800 | - | - | - | - |
| 100MMW825□HP** | 8.2 | 19.0 | 15.5 | 26.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 800 | - | - | - | - |
| 100MMW106□HP** | 10 | 19.0 | 17.0 | 28.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 100MMW126□HP** | 12 | 26.5 | 14.5 | 26.0 | 22.5 | 22.5 | 1.0 | 100 | 500 | - | - | - | - |
| 100MMW156□HP** | 15 | 26.5 | 16.5 | 28.0 | 22.5 | 22.5 | 1.0 | 100 | 400 | - | - | - | - |

□ : Tolerance(J:±5%, K:±10%, M:±20%) ** : Suffix

◆ RATED VOLTAGE : 200VDC

| Part No. | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | |
|----------------|---------|-----------------|------|------|-------|--------------|-----|----------------------------------|--------|-------------------------------|------|---|---|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | |
| | | A | B | C | F±1.5 | LS±0.5 | d | Bag | Carton | A | B, D | C | E |
| 200MMW184□HP** | 0.18 | 11.5 | 7.5 | 15.0 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW224□HP** | 0.22 | 11.5 | 8.5 | 15.5 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW274□HP** | 0.27 | 11.5 | 8.5 | 17.5 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW334□HP** | 0.33 | 11.5 | 9.0 | 19.0 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW394□HP** | 0.39 | 11.5 | 9.5 | 20.0 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW474□HP** | 0.47 | 11.5 | 10.0 | 20.5 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW564□HP** | 0.56 | 11.5 | 10.5 | 22.0 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW684□HP** | 0.68 | 11.5 | 11.5 | 23.5 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW824□HP** | 0.82 | 11.5 | 13.0 | 24.5 | 7.5 | 5.0/7.5 | 0.8 | 200 | 2,000 | - | - | - | - |
| 200MMW105□HP** | 1.0 | 14.5 | 11.0 | 22.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 200MMW125□HP** | 1.2 | 14.5 | 12.0 | 24.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 200MMW155□HP** | 1.5 | 14.5 | 14.0 | 25.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 200MMW185□HP** | 1.8 | 19.0 | 11.5 | 22.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 800 | - | - | - | - |
| 200MMW225□HP** | 2.2 | 19.0 | 12.5 | 24.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 800 | - | - | - | - |
| 200MMW275□HP** | 2.7 | 19.0 | 14.0 | 26.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 200MMW335□HP** | 3.3 | 19.0 | 15.5 | 28.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |

□ : Tolerance(J:±5%, K:±10%, M:±20%) ** : Suffix

◆ RATED VOLTAGE : 400VDC

| Part No. | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | |
|----------------|---------|-----------------|------|------|-------|--------------|-----|----------------------------------|--------|-------------------------------|------|---|---|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | |
| | | A | B | C | F±1.5 | LS±0.5 | d | Bag | Carton | A | B, D | C | E |
| 400MMW184□HP** | 0.18 | 14.0 | 7.5 | 17.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 2,000 | - | - | - | - |
| 400MMW224□HP** | 0.22 | 14.0 | 8.5 | 18.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 2,000 | - | - | - | - |
| 400MMW274□HP** | 0.27 | 14.0 | 9.0 | 19.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 400MMW334□HP** | 0.33 | 14.0 | 10.0 | 20.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 400MMW394□HP** | 0.39 | 14.0 | 11.0 | 21.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 400MMW474□HP** | 0.47 | 14.0 | 12.0 | 22.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 400MMW564□HP** | 0.56 | 14.0 | 13.0 | 24.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 400MMW684□HP** | 0.68 | 14.0 | 14.5 | 25.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 400MMW824□HP** | 0.82 | 14.0 | 15.5 | 27.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 800 | - | - | - | - |
| 400MMW105□HP** | 1.0 | 14.0 | 17.0 | 28.5 | 10.0 | 5.0/7.5/10.0 | 1.0 | 200 | 800 | - | - | - | - |
| 400MMW125□HP** | 1.2 | 14.0 | 19.0 | 30.5 | 10.0 | 5.0/7.5/10.0 | 1.0 | 200 | 800 | - | - | - | - |
| 400MMW155□HP** | 1.5 | 20.0 | 16.0 | 26.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 400MMW185□HP** | 1.8 | 20.0 | 17.5 | 28.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 400MMW225□HP** | 2.2 | 20.0 | 19.0 | 30.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |

□ : Tolerance(J:±5%, K:±10%, M:±20%) ** : Suffix

◆ RATED VOLTAGE : 450VDC

| Part No. | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | |
|----------------|---------|-----------------|------|------|-------|--------------|-----|----------------------------------|--------|-------------------------------|------|---|---|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | |
| | | A | B | C | F±1.5 | LS±0.5 | d | Bag | Carton | A | B, D | C | E |
| 450MMW184□HP** | 0.18 | 14.0 | 7.5 | 17.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 2,000 | - | - | - | - |
| 450MMW224□HP** | 0.22 | 14.0 | 8.5 | 18.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 2,000 | - | - | - | - |
| 450MMW274□HP** | 0.27 | 14.0 | 9.0 | 19.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 450MMW334□HP** | 0.33 | 14.0 | 10.0 | 20.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 450MMW394□HP** | 0.39 | 14.0 | 11.0 | 21.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 450MMW474□HP** | 0.47 | 14.0 | 12.0 | 22.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 450MMW564□HP** | 0.56 | 14.0 | 13.0 | 24.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 450MMW684□HP** | 0.68 | 14.0 | 14.5 | 25.5 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 1,000 | - | - | - | - |
| 450MMW824□HP** | 0.82 | 14.0 | 15.5 | 27.0 | 10.0 | 5.0/7.5/10.0 | 0.8 | 200 | 800 | - | - | - | - |
| 450MMW105□HP** | 1.0 | 14.0 | 17.0 | 28.5 | 10.0 | 5.0/7.5/10.0 | 1.0 | 200 | 800 | - | - | - | - |
| 450MMW125□HP** | 1.2 | 14.0 | 19.0 | 30.5 | 10.0 | 5.0/7.5/10.0 | 1.0 | 200 | 800 | - | - | - | - |
| 450MMW155□HP** | 1.5 | 20.0 | 16.0 | 26.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 450MMW185□HP** | 1.8 | 20.0 | 17.5 | 28.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 450MMW225□HP** | 2.2 | 20.0 | 19.0 | 30.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |

□ : Tolerance(J:±5%, K:±10%, M:±20%) **: Suffix

◆ RATED VOLTAGE : 630VDC

| Part No. | cap(μF) | Dimensions (mm) | | | | | | Typical Packaging Quantity (pcs) | | | | | |
|----------------|---------|-----------------|------|------|-------|--------------|-----|----------------------------------|--------|-------------------------------|------|---|---|
| | | | | | | | | Long Lead type | | Taping Ammo pack type - style | | | |
| | | A | B | C | F±1.5 | LS±0.5 | d | Bag | Carton | A | B, D | C | E |
| 630MMW184□HP** | 0.18 | 20.0 | 8.5 | 18.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 1,000 | - | - | - | - |
| 630MMW224□HP** | 0.22 | 20.0 | 9.0 | 19.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 1,000 | - | - | - | - |
| 630MMW274□HP** | 0.27 | 20.0 | 10.0 | 20.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 1,000 | - | - | - | - |
| 630MMW334□HP** | 0.33 | 20.0 | 11.0 | 21.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 1,000 | - | - | - | - |
| 630MMW394□HP** | 0.39 | 20.0 | 12.0 | 23.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 800 | - | - | - | - |
| 630MMW474□HP** | 0.47 | 20.0 | 13.0 | 24.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 200 | 800 | - | - | - | - |
| 630MMW564□HP** | 0.56 | 20.0 | 14.5 | 25.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 800 | - | - | - | - |
| 630MMW684□HP** | 0.68 | 20.0 | 16.0 | 27.0 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 630MMW824□HP** | 0.82 | 20.0 | 17.5 | 28.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 500 | - | - | - | - |
| 630MMW105□HP** | 1.0 | 20.0 | 19.5 | 30.5 | 15.0 | 5.0/7.5/15.0 | 1.0 | 100 | 400 | - | - | - | - |

□ : Tolerance(J:±5%, K:±10%, M:±20%) **: Suffix

◆ ALLOWABLE CURRENT FOR FREQUENCY

