

NISSEI メタライズド・ポリエステル・フィルム・コンデンサ

Type **MMC**

METALLIZED POLYESTER FILM CAPACITOR

特徴 / Features

MMHタイプを更に、小型化した製品です。
 当社独自の製造法により非常に小型化されております。
 自己回復作用があるため、信頼性が優れております。
 外装は最新のエポキシ加工により難燃性のエポキシ樹脂による均一な厚さで覆われていますので小型軽量となっております。

Smaller version of MMH type
 Very small size, achieved by our unique manufacturing method.
 Highly reliable because of its self-healing performance.
 Uniform flame-retardant epoxy resin coating through the latest resin technology.
 This provides miniature size and light weight.

規格 / Specifications

| | | | |
|-------------------------------|---|-------------------------------|--|
| 使用温度範囲 Temp range | -40 ~ +85 (+105) | 絶縁抵抗 Insulation resistance | C 0.33 μ F 15,000 M _{以上} C > 0.33 μ F 5,000 F _{以上} |
| 定格電圧 Voltage | 250V、400V、450V、630V、1000V、1250Vd.c | 高温負荷 Endurance | 85 . W.V \times 125%, 1000hr印加 C/C \pm 5% _{以内} tan 0.01 _{以下} IR C 0.33 μ F 2,700 M _{以上} C > 0.33 μ F 900 F _{以上} |
| 静電容量範囲 Capacitance | 250V 0.0010 ~ 10.0 μ F 450V 0.0010 ~ 3.3 μ F (各定格 E12 シリーズ) 400V 0.0010 ~ 4.7 μ F 630V 0.0010 ~ 2.2 μ F 1000V 0.0010 ~ 0.47 μ F 1250V 0.0010 ~ 0.22 μ F | 耐湿負荷 Damp heat | 40 . 90 ~ 95%RH WV 500hr印加 C/C \pm 7% _{以内} tan 0.01 _{以下} IR C 0.33 μ F 2,700 M _{以上} C > 0.33 μ F 900 F _{以上} |
| 静電容量許容差 Cap. tolerance | \pm 5 % (J) , \pm 10 % (K) | | |
| 誘電正接 Tangent of loss angle | 0.008以下 (at 1KHz) or less | | |

() 温度は電圧軽減による使用可能範囲です。

() Marked temperature shows operatable range when voltage derated.

寸法 / Dimensions(mm)

| Type MMC (E - 12) | WV 寸法 Cap(μ F) | MMC 250V.d.c. | | | | | | MMC 400V.d.c. | | | | | |
|-------------------|-------------------------|---------------|------|------|------|--------------|-----|---------------|------|------|------|--------------|-----|
| | | W | H | T | P | F | d | W | H | T | P | F | d |
| 102 | 0.0010 | 10.3 | 7.0 | 4.0 | 7.5 | 5.0/7.5 | 0.6 | 10.3 | 7.0 | 4.0 | 7.5 | 5.0/7.5 | 0.6 |
| 122 | 0.0012 | | | | | | | | | | | | |
| 152 | 0.0015 | | | | | | | | | | | | |
| 182 | 0.0018 | | | | | | | | | | | | |
| 222 | 0.0022 | | | | | | | | | | | | |
| 272 | 0.0027 | | | | | | | | | | | | |
| 332 | 0.0033 | | | | | | | | | | | | |
| 392 | 0.0039 | | | | | | | | | | | | |
| 472 | 0.0047 | | | | | | | | | | | | |
| 562 | 0.0056 | | | | | | | | | | | | |
| 682 | 0.0068 | | | | | | | | | | | | |
| 822 | 0.0082 | | | | | | | | | | | | |
| 103 | 0.010 | | 7.4 | 4.3 | | | | 7.6 | 4.4 | | | | |
| 123 | 0.012 | | | 4.4 | | | | 7.8 | | | | | |
| 153 | 0.015 | | 7.5 | | | | | | | | | | |
| 183 | 0.018 | | | | | | | 7.6 | | | | | |
| 223 | 0.022 | | | | | | | 7.9 | 4.5 | | | | |
| 273 | 0.027 | | | | | | | 8.2 | 4.8 | | | | |
| 333 | 0.033 | | | | | | | 9.0 | 5.5 | | | | |
| 393 | 0.039 | | | 4.5 | | | | 12.5 | 8.0 | 4.9 | 10.0 | 5.0/7.5/10.0 | |
| 473 | 0.047 | | 7.9 | 4.4 | | | | 8.3 | 5.2 | | | | |
| 563 | 0.056 | | | 4.8 | | | | 10.0 | | | | | |
| 683 | 0.068 | | 7.5 | 4.5 | | | | 10.5 | 5.5 | | | | |
| 823 | 0.082 | | 8.0 | 4.8 | | | | 11.0 | 6.0 | | | | |
| 104 | 0.10 | | 8.4 | 5.8 | | | | 12.0 | | | | | |
| 124 | 0.12 | | 9.0 | 6.0 | | | | 18.0 | 10.2 | 5.5 | 15.0 | 5.0/7.5/15.0 | |
| 154 | 0.15 | | 10.8 | | | | | | 12.0 | | | | |
| 184 | 0.18 | 12.5 | 10.0 | 5.0 | 10.0 | 5.0/7.5/10.0 | | 12.5 | 6.0 | | | | |
| 224 | 0.22 | | 10.3 | 5.5 | | | | 13.0 | 6.5 | | | | |
| 274 | 0.27 | | 11.0 | 6.0 | | | | 13.5 | 7.0 | | | | 0.8 |
| 334 | 0.33 | | 11.5 | 6.5 | | | | 14.0 | 7.7 | | | | |
| 394 | 0.39 | 18.0 | 12.0 | 4.9 | 15.0 | 5.0/7.5/15.0 | | 15.0 | 8.5 | | | | |
| 474 | 0.47 | | 12.5 | 5.3 | | | | | 16.5 | | | | |
| 564 | 0.56 | | 13.0 | 5.5 | | | | 25.0 | 15.3 | 7.5 | 22.5 | 22.5 | |
| 684 | 0.68 | | 13.5 | 6.0 | | | 0.8 | | 16.0 | 8.2 | | | |
| 824 | 0.82 | | 14.5 | 6.5 | | | | | 16.8 | 9.0 | | | |
| 105 | 1.0 | | 15.0 | 7.4 | | | | | 17.7 | 10.0 | | | |
| 125 | 1.2 | | 15.9 | 8.0 | | | | | 18.8 | 11.0 | | | |
| 155 | 1.5 | | 16.8 | 9.0 | | 7.5/15.0 | | 30.0 | 19.5 | 10.0 | 27.5 | 27.5 | |
| 185 | 1.8 | 25.0 | 15.5 | 7.5 | 22.5 | 22.5 | | | 18.7 | 9.3 | | | |
| 225 | 2.2 | | 16.3 | 8.5 | | | | | 19.8 | 10.4 | | | |
| 275 | 2.7 | | 17.1 | 9.4 | | | | | 21.0 | 11.6 | | | |
| 335 | 3.3 | | 18.0 | 10.3 | | | | | 22.3 | 13.0 | | | |
| 395 | 3.9 | | 20.5 | 11.0 | | | | | 23.6 | 14.2 | | | |
| 475 | 4.7 | | 21.5 | 12.0 | | | | | 25.2 | 15.8 | | | |
| 565 | 5.6 | 30.0 | 21.0 | 11.8 | 27.5 | 27.5 | | | | | | | |
| 685 | 6.8 | | 22.4 | 13.0 | | | | | | | | | |
| 825 | 8.2 | | 23.5 | 14.3 | | | | | | | | | |
| 106 | 10.0 | | 25.8 | 15.9 | | | | | | | | | |

ご使用にあたっては、使用上の注意事項(8-14頁)を、ご確認の上技術仕様書などをお求め願ひ、仕様書の範囲内でのご使用をお願いいたします。

When using our capacitors, please consider the application notes on pages 8-14 and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.

| 形状 Style | ストレートリード Straight lead type | | シングルフォーミング Single formed lead type | |
|--------------------|--------------------------------|-----------|---------------------------------------|-----------|
| | | | | |
| Cap範囲 Cap range | 250 V.d.c | 102 ~ 106 | 102 ~ 106 | 184 ~ 155 |
| | 400 V.d.c | 102 ~ 475 | 102 ~ 475 | 393 ~ 474 |
| | 450 V.d.c | 102 ~ 335 | 102 ~ 335 | 393 ~ 474 |
| | 630 V.d.c | 102 ~ 225 | 102 ~ 225 | 103 ~ 224 |
| | 1000V.d.c | 102 ~ 474 | 102 ~ 223 | 273 ~ 474 |
| | 1250V.d.c | 102 ~ 224 | 102 ~ 682 | 822 ~ 224 |

テーピング仕様のリードピッチ寸法(F)はP5 テーピング寸法表をご参照下さい
 For a pitch space (F) of the taping specification, refer to "TAPING DIMENSION" on p.5.

寸法 / Dimensions(mm)

| Type MMC (E-12) | WV Cap(μF) 寸法 | MMC 450V.d.c. | | | | | | MMC 630V.d.c. | | | | | |
|-----------------------|---------------------|---------------|------|------|------|--------------|-----|---------------|------|------|------|--------------|-----|
| | | W | H | T | P | F | d | W | H | T | P | F | d |
| 102 | 0.0010 | 10.3 | 7.0 | 4.0 | 7.5 | 5.0/7.5 | 0.6 | 10.3 | 7.5 | 4.5 | 7.5 | 5.0/7.5 | 0.6 |
| 122 | 0.0012 | | | | | | | | | | | | |
| 152 | 0.0015 | | | | | | | | | | | | |
| 182 | 0.0018 | | | | | | | | | | | | |
| 222 | 0.0022 | | | | | | | | | | | | |
| 272 | 0.0027 | | | | | | | | | | | | |
| 332 | 0.0033 | | | | | | | | | | | | |
| 392 | 0.0039 | | | | | | | | | | | | |
| 472 | 0.0047 | | | | | | | | | | | | |
| 562 | 0.0056 | | | | | | | | | | | | |
| 682 | 0.0068 | | | | | | | | | | | | |
| 822 | 0.0082 | | | | | | | | | | | | |
| 103 | 0.010 | | 7.6 | 4.4 | | | | 12.5 | | 4.0 | 10.0 | 5.0/7.5/10.0 | |
| 123 | 0.012 | | 7.8 | | | | | | | 4.5 | | | |
| 153 | 0.015 | | | | | | | | | 5.0 | | | |
| 183 | 0.018 | | 7.6 | | | | | | 8.2 | | | | |
| 223 | 0.022 | | 7.9 | 4.5 | | | | | 10.0 | | | | |
| 273 | 0.027 | | 8.2 | 4.8 | | | | | 10.5 | 5.3 | | | |
| 333 | 0.033 | | 9.0 | 5.5 | | | | | 11.0 | 6.0 | | | |
| 393 | 0.039 | 12.5 | 8.0 | 4.9 | 10.0 | 5.0/7.5/15.0 | | | 12.5 | | | | |
| 473 | 0.047 | | 8.3 | 5.2 | | | | | 13.0 | 6.5 | | | |
| 563 | 0.056 | | 10.0 | | | | | 18.0 | 10.5 | 5.5 | 15.0 | 5.0/7.5/15.0 | |
| 683 | 0.068 | | 10.5 | 5.5 | | | | | 11.0 | 6.0 | | | |
| 823 | 0.082 | | 11.0 | 6.0 | | | | | 11.5 | 6.5 | | | |
| 104 | 0.10 | | 12.0 | | | | | | 13.0 | | | | |
| 124 | 0.12 | 18.0 | 10.2 | 5.5 | 15.0 | | | | 13.5 | 7.0 | | | 0.8 |
| 154 | 0.15 | | 12.0 | | | | | | 14.5 | 8.0 | | | |
| 184 | 0.18 | | 12.5 | 6.0 | | | | | 16.0 | | | | |
| 224 | 0.22 | | 13.0 | 6.5 | | | | | 16.5 | 9.0 | | | |
| 274 | 0.27 | | 13.5 | 7.0 | | | 0.8 | 25.0 | 16.8 | 7.5 | 22.5 | 22.5 | |
| 334 | 0.33 | | 14.0 | 7.7 | | | | | 17.5 | 8.0 | | | |
| 394 | 0.39 | | 15.0 | 8.5 | | | | | 18.0 | 8.7 | | | |
| 474 | 0.47 | | 16.5 | | | | | | 19.0 | 9.5 | | | |
| 564 | 0.56 | 25.0 | 15.3 | 7.5 | 22.5 | 22.5 | | | 20.0 | 10.5 | | | |
| 684 | 0.68 | | 16.0 | 8.2 | | | | | 21.5 | 11.5 | | | |
| 824 | 0.82 | | 16.8 | 9.0 | | | | 30.0 | 20.0 | 10.5 | 27.5 | 27.5 | |
| 105 | 1.0 | | 17.7 | 10.0 | | | | | 21.0 | 11.5 | | | |
| 125 | 1.2 | | 18.8 | 11.0 | | | | | 22.0 | 12.5 | | | |
| 155 | 1.5 | 30.0 | 19.5 | 10.0 | 27.5 | 27.5 | | | 24.0 | 14.3 | | | |
| 185 | 1.8 | | 21.5 | 11.0 | | | | | 25.5 | 15.5 | | | |
| 225 | 2.2 | | 23.0 | 12.5 | | | | | 27.3 | 17.5 | | | |
| 275 | 2.7 | | 25.0 | 14.0 | | | | | | | | | |
| 335 | 3.3 | | 26.5 | 15.5 | | | | | | | | | |

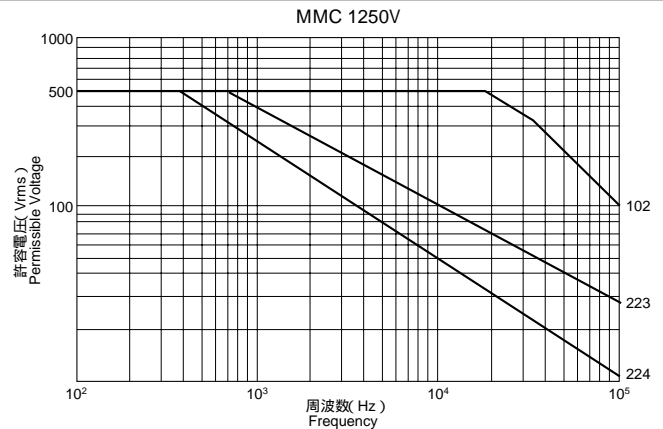
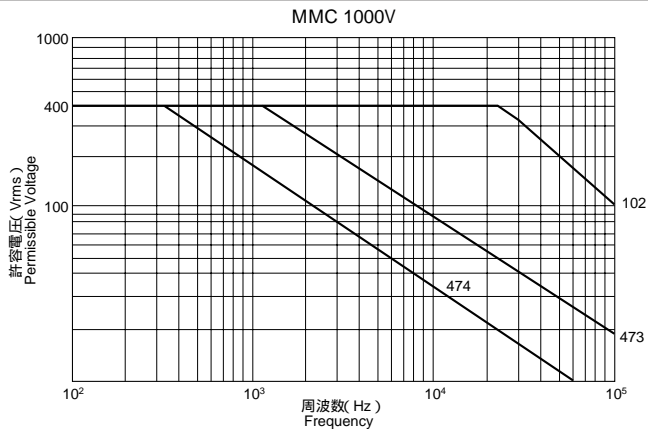
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When using our capacitors, please consider the application notes on pages 8-14 and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.

寸法 / Dimensions(mm)

| Type MMC (E-12) | Cap(μF) | MMC 1000V.d.c. | | | | | | MMC 1250V.d.c. | | | | | |
|-----------------|---------|----------------|------|------|------|------|-----|----------------|------|------|------|------|-----|
| | | W | H | T | P | F | d | W | H | T | P | F | d |
| 102 | 0.0010 | 15.5 | 11.0 | 6.0 | 12.5 | 10.0 | 0.6 | 15.5 | 11.0 | 6.0 | 12.5 | 10.0 | 0.6 |
| 122 | 0.0012 | | | | | | | | | | | | |
| 152 | 0.0015 | | | | | | | | | | | | |
| 182 | 0.0018 | | | | | | | | | | | | |
| 222 | 0.0022 | | 11.5 | | | | | | | | | | |
| 272 | 0.0027 | | 12.0 | 6.5 | | | | | | | | | |
| 332 | 0.0033 | | 11.5 | 6.0 | | | | | | | | | |
| 392 | 0.0039 | | 12.0 | 6.5 | | | | | | | | | |
| 472 | 0.0047 | | 12.5 | 7.0 | | | | | | | | | |
| 562 | 0.0056 | | 13.0 | 7.5 | | | | | | | | | |
| 682 | 0.0068 | | 11.0 | 6.0 | | | | | | | | | |
| 822 | 0.0082 | | | | | 12.5 | | 21.0 | 12.0 | 5.0 | 17.5 | 12.5 | |
| 103 | 0.010 | | | | | | | | 12.5 | | | | |
| 123 | 0.012 | | 12.0 | | | | | | 13.0 | 5.5 | | | |
| 153 | 0.015 | | 12.5 | 7.0 | | | | | 13.5 | 6.0 | | | |
| 183 | 0.018 | | 13.0 | 7.5 | | | | | 14.5 | 6.5 | | | 0.8 |
| 223 | 0.022 | | 15.5 | | | | | | 15.0 | 7.0 | | | |
| 273 | 0.027 | 21.0 | 13.0 | 6.0 | 17.5 | | | 26.0 | 15.5 | 6.0 | 22.5 | 17.5 | |
| 333 | 0.033 | | 14.0 | 6.5 | | | | | 16.0 | 6.5 | | | |
| 393 | 0.039 | | 14.5 | 7.0 | | | | | 16.5 | 7.0 | | | |
| 473 | 0.047 | | 15.5 | 7.5 | | | | | 17.0 | 8.0 | | | |
| 563 | 0.056 | | 17.0 | | | | | 31.0 | | 7.5 | 27.5 | 22.5 | |
| 683 | 0.068 | | 18.0 | 8.5 | | | | | 17.5 | 8.0 | | | |
| 823 | 0.082 | | 18.5 | 9.0 | | | | | 18.5 | 9.0 | | | |
| 104 | 0.10 | | 20.0 | 10.0 | | | | | 19.5 | 10.0 | | | |
| 124 | 0.12 | 26.0 | 18.5 | 9.0 | 22.5 | 17.5 | | | 20.5 | 11.5 | | | |
| 154 | 0.15 | | 20.0 | 10.0 | | | | | 23.0 | 12.0 | | | |
| 184 | 0.18 | | 22.0 | 10.5 | | | | | 24.5 | 13.0 | | | |
| 224 | 0.22 | | 23.0 | 12.0 | | | | | 26.5 | 14.5 | | | |
| 274 | 0.27 | | 25.0 | 13.5 | | | | | | | | | |
| 334 | 0.33 | 31.0 | 24.0 | 13.0 | 27.5 | 22.5 | | | | | | | |
| 394 | 0.39 | | 26.0 | 14.0 | | | | | | | | | |
| 474 | 0.47 | | 27.5 | 15.5 | | | | | | | | | |

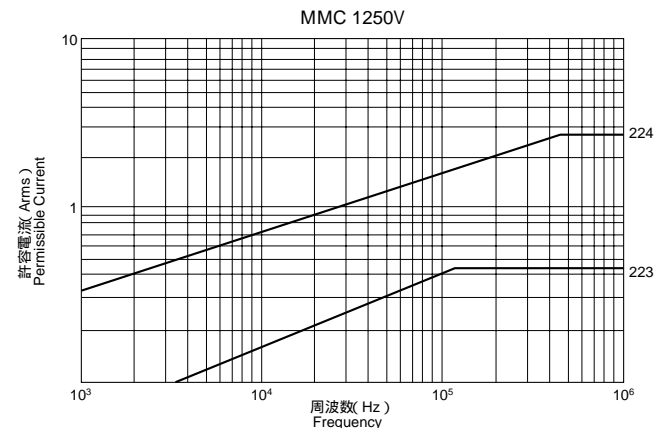
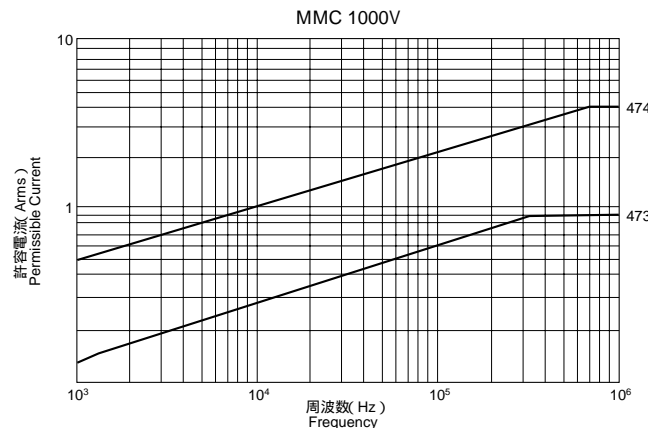
周波数に対する電圧軽減特性 / Characteristics of voltage derating to frequency



DCバイアス分を含む場合は、その波形の波高値（ピーク電圧Vo-p）が定格電圧以下でご利用下さい。

If DC biases are contained, Vo-p should not exceed the rated voltage.

周波数に対する許容電流特性 / Characteristics of permissible current to frequency



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When using our capacitors, please consider the application notes on pages 8-14 and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.

特徴 / Features

当社独自の製造法により非常に小型化されております。
 自己回復作用があるため、信頼性が優れております。
 外装は最新の外装塗装法により難燃性エポキシ樹脂で均一な厚さに被覆
 されていますので小型軽量となっております。
 低電圧から高電圧まで、シリーズ化されております。

Very small size, achieved by our unique manufacturing method.
 Highly reliable because of its self-healing performance.
 Uniform flame-retardant epoxy resin coating from the latest resin
 technology.
 This provides miniature size and light weight.
 Available in series from low voltage to high voltage.

規格 / Specifications

| | | | |
|-------------------------------|---|-------------------------------|---|
| 使用温度範囲 Temp range | -40 ~ +85 (+105) | 絶縁抵抗 Insulation resistance | C 0.33 μ F 15,000 M 以上 C > 0.33 μ F 5,000 F 以上 |
| 定格電圧 Voltage | 100V, 250V, 400V, 630V, 1,000V, 1,250Vd.c | 高温負荷 Endurance | 85 . WV \times 125%, 1000hr印加 C/C \pm 5% 以内 tan 0.01 以下 IR C 0.33 μ F 2,700 M 以上 C > 0.33 μ F 900 F 以上 |
| 静電容量範囲 Capacitance | 100V...0.033 ~ 4.7 μ F 250V...0.047 ~ 3.3 μ F 400V...0.022 ~ 1.5 μ F 630V...0.0010 ~ 0.68 μ F 1,000V...0.0010 ~ 0.22 μ F 1,250V...0.0010 ~ 0.1 μ F (各定格 E-12シリーズ) | 耐湿負荷 Damp heat | 40 90 ~ 95%RH WV 500hr印加 C/C \pm 7% 以内 tan 0.01 以下 IR C 0.33 μ F 2,700 M 以上 C > 0.33 μ F 900 F 以上 |
| 静電容量許容差 Cap. tolerance | \pm 5 % (J) . \pm 10% (K) | | |
| 誘電正接 Tangent of loss angle | 0.008以下 (at 1KHz) or less | | |

() 温度は電圧軽減による使用可能範囲です。
 () Marked temperature shows operatable range when voltage derated.

寸法 / Dimensions(mm)

| Type MMH (E-12) | WV 寸法 Cap. (μ F) | MMH100V.d.c. | | | | | | MMH 250V.d.c. | | | | | | MMH 400V.d.c. | | | | | | |
|-----------------------|-----------------------------|--------------|------|-----|------|--------------|-----|---------------|------|------|------|--------------|-----|---------------|------|------|------|------|--------------|-----|
| | | W | H | T | P | F | d | W | H | T | P | F | d | W | H | T | P | F | d | |
| 223 | 0.022 | | | | | | | | | | | | | | 13.0 | 7.0 | 4.0 | 10.0 | 5.0/7.5/10.0 | 0.6 |
| 273 | 0.027 | | | | | | | | | | | | | | | 7.5 | 4.5 | | | |
| 333 | 0.033 | 9.5 | 5.5 | 3.5 | 7.5 | 5.0/7.5 | 0.5 | | | | | | | | 9.0 | | | | | |
| 393 | 0.039 | | | | | | | | | | | | | | 9.5 | | | | | |
| 473 | 0.047 | | | | | | | 10.0 | 7.5 | 4.5 | 7.5 | 5.0/7.5 | 0.6 | | 10.0 | 5.0 | | | | |
| 563 | 0.056 | | | | | | | | | 8.0 | 5.0 | | | | 10.5 | | | | | |
| 683 | 0.068 | | | | | | | | | 8.5 | | | | | 10.0 | 6.5 | | | | |
| 823 | 0.082 | | | | | | | 13.0 | | 4.5 | 10.0 | 5.0/7.5/10.0 | | | 10.5 | 7.0 | | | | |
| 104 | 0.10 | 10.0 | 7.0 | 3.8 | | | | | | 9.5 | | | | | 18.0 | | 5.0 | 15.0 | 5.0/7.5/15.0 | |
| 124 | 0.12 | | 7.5 | | | | | | | 10.0 | 5.0 | | | | | 11.0 | 5.5 | | | |
| 154 | 0.15 | | 8.0 | 4.0 | | | | | | 10.5 | | | | | | 12.0 | 6.5 | | | |
| 184 | 0.18 | | | 4.3 | | | | | | 11.0 | 5.5 | | | | | 12.5 | 7.0 | | | |
| 224 | 0.22 | | | 4.5 | | | | | | 11.5 | 6.0 | | | | | 15.0 | 6.5 | | | |
| 274 | 0.27 | | 9.8 | | | | | 18.0 | 10.5 | 5.0 | 15.0 | 5.0/7.5/15.0 | | | | 8.0 | | | | 0.8 |
| 334 | 0.33 | | 11.0 | | | | | | | 12.0 | | | | | | 15.5 | 8.5 | | | |
| 394 | 0.39 | | 11.5 | 5.0 | | | | | | 12.5 | 5.5 | | | | | 16.5 | 9.0 | | | |
| 474 | 0.47 | | 12.0 | 5.3 | | | | | | 13.0 | 6.0 | | | | 25.0 | 17.5 | 7.0 | 22.5 | 22.5 | |
| 564 | 0.56 | 12.5 | 10.5 | | 10.0 | 5.0/7.5/10.0 | 0.6 | | | 15.0 | | | | | | 18.0 | 7.5 | | | |
| 684 | 0.68 | | | 6.4 | | | | | | 15.5 | 7.0 | | | | | 19.0 | 8.5 | | | |
| 824 | 0.82 | | 13.5 | 5.7 | | | | 25.0 | 15.0 | 6.0 | 22.5 | 22.5 | | | | 19.5 | 9.5 | | | |
| 105 | 1.0 | | 14.0 | 6.0 | | | | | | 15.5 | 6.5 | | | | | 20.5 | 10.5 | | | |
| 125 | 1.2 | 18.0 | 12.0 | 5.5 | 15.0 | 5.0/7.5/15.0 | 0.8 | | | 16.0 | 7.3 | | | | | 21.5 | 11.5 | | | |
| 155 | 1.5 | | 13.0 | 6.0 | | | | | | 17.0 | 8.0 | | | | 30.0 | | | 27.5 | 27.5 | |
| 185 | 1.8 | | 13.5 | 6.5 | | | | | | 17.5 | 9.0 | | | | | | | | | |
| 225 | 2.2 | | 14.0 | 7.3 | | | | 30.0 | | 8.5 | 27.5 | 27.5 | | | | | | | | |
| 275 | 2.7 | 25.0 | 13.5 | 6.5 | 22.5 | 22.5 | | | | 18.5 | 10.5 | | | | | | | | | |
| 335 | 3.3 | | 15.0 | 7.0 | | | | | | 19.5 | 11.0 | | | | | | | | | |
| 395 | 3.9 | | 16.0 | 7.5 | | | | | | | | | | | | | | | | |
| 475 | 4.7 | | 17.0 | 8.0 | | | | | | | | | | | | | | | | |

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When using our capacitors, please consider the application notes on pages 8-14 and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.

| 形状 Style | ストレートリード Straight lead type | | シングルフォーミング Single formed lead type | | ダブルフォーミング Double formed lead type | |
|-------------|--------------------------------|-----------|---------------------------------------|-----------|--------------------------------------|-------------------------------|
| | | | | | | |
| Cap range | 100 V.d.c | 333 ~ 475 | 333 ~ 475 | 564 ~ 225 | 333 ~ 474 F ₁ =5.0 | 564 ~ 105 F ₁ =7.5 |
| | 250 V.d.c | 473 ~ 335 | 473 ~ 335 | 823 ~ 684 | | |
| | 400 V.d.c | 223 ~ 155 | 223 ~ 155 | 223 ~ 394 | | |
| | 630 V.d.c | 102 ~ 684 | 102 ~ 684 | 102 ~ 124 | | |
| | 1000 V.d.c | 102 ~ 224 | 822 ~ 223 | 102 ~ 224 | | |
| | 1250 V.d.c | 102 ~ 104 | | 102 ~ 224 | | |

ダブルフォーミングのF寸法は別途お問合せ下さい。
For F-dimension of double formed leads, please contact Nissei.

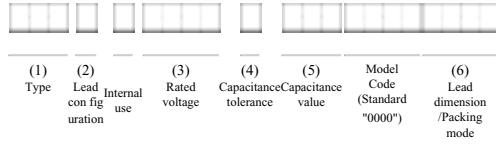
テーピング仕様のリードピッチ寸法(F)はP5 テーピング寸法表をご参照下さい
For a pitch space (F) of the taping specification, refer to "TAPING DIMENSION" on p.5.

寸法 / Dimensions(mm)

| Type MMH (E-12) | WV 寸法 Cap(μF) | MMH 630V.d.c. | | | | | | MMH 1,000V.d.c. | | | | | | MMH 1,250V.d.c. | | | | | |
|-----------------------|---------------------|---------------|------|------|------|--------------|-----|-----------------|------|------|------|----------|-----|-----------------|------|------|------|----------|-----|
| | | W | H | T | P | F | d | W | H | T | P | F | d | W | H | T | P | F | d |
| 102 | 0.0010 | 12.5 | 7.5 | 4.5 | 10.0 | 5.0/7.5/10.0 | 0.6 | 19.0 | 10.5 | 5.5 | 15.5 | 7.5/10.0 | 0.6 | 19.0 | 10.5 | 5.5 | 15.5 | 7.5/10.0 | 0.6 |
| 122 | 0.0012 | | | | | | | | | | | | | | | | | | |
| 152 | 0.0015 | | | | | | | | | | | | | | | | | | |
| 182 | 0.0018 | | | | | | | | | | | | | | | | | | |
| 222 | 0.0022 | | | | | | | | 11.0 | | | | | | 11.0 | | | | |
| 272 | 0.0027 | | | | | | | | | 6.0 | | | | | | 6.0 | | | |
| 332 | 0.0033 | | | | | | | | | | | | | | | | | | |
| 392 | 0.0039 | | | | | | | | 11.5 | 6.5 | | | | | 11.5 | 6.5 | | | |
| 472 | 0.0047 | | 10.0 | 5.0 | | | | | 12.0 | | | | | | 12.0 | | | | |
| 562 | 0.0056 | | | | | | | | 13.0 | 7.0 | | | | | 13.0 | 7.0 | | | |
| 682 | 0.0068 | | | | | | | | 13.5 | 7.5 | | | | | 13.5 | 7.5 | | | |
| 822 | 0.0082 | | | | | | | | | | | 7.5/12.5 | | | | | | | |
| 103 | 0.010 | 13.0 | 7.5 | 4.0 | | | | | 13.0 | 7.0 | | | | | 12.5 | 6.5 | | | |
| 123 | 0.012 | | 8.0 | 4.5 | | | | | | 7.5 | | | | | | | | | |
| 153 | 0.015 | | 9.5 | 4.0 | | | | | 14.0 | 8.0 | | | | | 14.0 | | | | |
| 183 | 0.018 | | 10.0 | 4.5 | | | | | 15.0 | | | | | | 14.5 | 7.0 | | | |
| 223 | 0.022 | | 10.5 | 5.0 | | | | | | | | | | | 15.0 | 8.0 | | | |
| 273 | 0.027 | | | 5.5 | | | | 26.0 | 15.0 | 7.0 | 21.5 | 12.5 | 0.8 | 31.0 | 15.5 | | 26.5 | 17.5 | 0.8 |
| 333 | 0.033 | | 11.0 | | | | | | 15.5 | 7.5 | | | | | 16.0 | 8.5 | | | |
| 393 | 0.039 | | 10.5 | 7.0 | | | | | 17.0 | | | | | | 17.0 | | | | |
| 473 | 0.047 | 18.0 | | 5.0 | 15.0 | 5.0/7.5/15.0 | | | 17.5 | 8.5 | | | | | 18.0 | 9.0 | | | |
| 563 | 0.056 | | 11.0 | 5.5 | | | | | 18.0 | 9.0 | | | | 34.0 | | | 30.5 | 22.5 | |
| 683 | 0.068 | | | 6.0 | | | | | 19.0 | 10.0 | | | | | 20.0 | 9.5 | | | |
| 823 | 0.082 | | 13.5 | | | | | | 20.0 | | | | | | 20.5 | 10.0 | | | |
| 104 | 0.10 | | 14.0 | 6.5 | | | | | | 10.5 | | | | | 22.0 | 10.5 | | | |
| 124 | 0.12 | | 15.5 | | | | | 31.0 | 20.5 | | 26.5 | 17.5 | | | | | | | |
| 154 | 0.15 | 25.0 | 13.5 | 6.0 | 22.5 | 22.5 | 0.8 | | 22.0 | 11.5 | | | | | | | | | |
| 184 | 0.18 | | 14.0 | 6.5 | | | | | 23.0 | 12.5 | | | | | | | | | |
| 224 | 0.22 | | 16.0 | 7.0 | | | | | 24.0 | 13.5 | | | | | | | | | |
| 274 | 0.27 | | 17.0 | 8.0 | | | | | | | | | | | | | | | |
| 334 | 0.33 | | 17.5 | 8.5 | | | | | | | | | | | | | | | |
| 394 | 0.39 | | 18.5 | 9.5 | | | | | | | | | | | | | | | |
| 474 | 0.47 | 30.0 | 19.0 | 8.5 | 27.5 | 27.5 | | | | | | | | | | | | | |
| 564 | 0.56 | | 20.0 | 9.5 | | | | | | | | | | | | | | | |
| 684 | 0.68 | | 21.0 | 10.5 | | | | | | | | | | | | | | | |

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When using our capacitors, please consider the application notes on pages 8-14 and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.



| (2) Lead configuration code | | (6) Lead Dimensions Packing Mode code *2 | | | | |
|-----------------------------|--|--|---------|--------------------------|---|--|
| Code | Lead configuration | Typical Code Samples | | | | Description |
| *1 | Straight lead | 0000 | | | | No lead processing and always in bulk (0000) |
| C | Cut shorter (cut leads) | 0050 | | | | Lead length multiplied by 10. Always in bulk |
| F | Single formed (leads) | F (mm) Lead spacing | Code | F (mm) Lead spacing | Code | Lead spacing (F) after forming indicated as multiplied by 10. Always in bulk |
| | | 5.0 | 0050 *3 | 17.5 | 0175 | |
| | | 7.5 | 0075 | 20.0 | 0200 | |
| D | Double formed (leads) | 10.0 | 0100 | 22.5 | 0225 | |
| | | 12.5 | 0125 | 25.0 | 0250 | |
| | | 15.0 | 0150 | 27.5 | 0275 | |
| V | Lead taping for automatic insertion machine (Formed leads) | Type | Style | Code | Single / Double-formed leads taped and ammo-packed. See p.5 to 6. | |
| | | Formed leads type | 1 | 0200 *4 | | |
| | | | 2 | D200 | | |
| | | | 3 | D210 | | |
| | | | 4 | D220 | | |
| | | | 5 | 0200 | | |
| 6 | 0200 | | | | | |
| S | Lead taping for automatic insertion machine (Straight leads) | Straight leads type | | 0200 (AMZ50V & AMC:C220) | Straight leads taped and ammo-packed. See p.5 to 6. | |

*1 The blank square signifies a straight lead type.
 *2 some types could bear different lead dimension codes, to be confirmed each case. As to reel packing, contact Nissei.
 *3 a code Cap471 to 393 in Model Code "0000" of AMC type shall be "1050".
 *4 a code Cap471 to 393 in Model Code "0000" of AMC type shall be "A210".

(3) Rated Voltage (V.d.c,V.a.c)

| | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Voltage | 25 | 35 | 50 | 63 | 100 | 125 | 200 | 250 | 275 | 315 | 400 | 450 | 630 | 800 | 1000 | 1250 | 1600 |
| Code | 0025 | 0035 | 0050 | 0063 | 0100 | 0125 | 0200 | 0250 | 0275 | 0315 | 0400 | 0450 | 0450 | 0800 | 1000 | 1250 | 1600 |

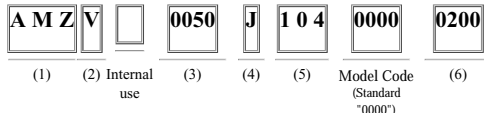
(4) Capacitance Tolerance

| | | | | | | |
|---------------|-------|-------|-------|-------|--------|--------|
| Code | F | G | H | J | K | M |
| Tolerance (%) | +/- 1 | +/- 2 | +/- 3 | +/- 5 | +/- 10 | +/- 20 |

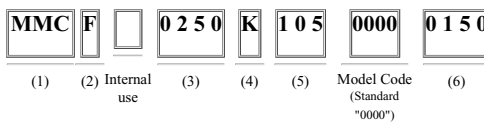
(5) Capacitance Code

Capacitance (pF) expressed in 3-digit code.
 The first two digits: Significant figures of capacitance value.
 The third digit: The number of zeros to follow the significant figures.

Coding Sample
 1) Coding of: AMZ 50V, 0.10 microF, +/-5%, SINGLE formed, taped and ammo-packed



2) Coding of MMC 250V 1.0 μF +/-10%, single formed with 15.0mm leads, in bulk



3) Coding have: MMT 50V 0.1 microF +/-5%, straight lead (in bulk)

