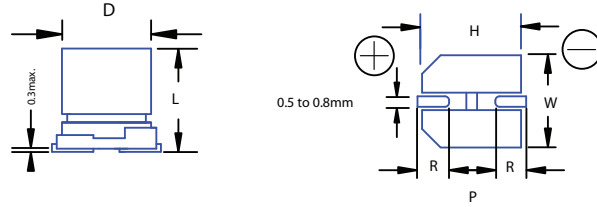


FEATURES

- LOW IMPEDANCE
- 4~6.3 D 2000hrs, 8~16 D 5000hrs LIFE
- WIDE TEMPERATURE RANGE
- DESIGNED FOR AUTOMATIC MOUNTING
- SOLVENT RESISTANT



PART NUMBERING

Part Number Example: MXWRU-025/100M4X6TR13FG

| MXWRU | - | 025 | / | 100 | M | 4X6 | TR | 13 | F | G |
|-------|---|------------------|---|------------------------|----------------|------|----------------|-----------|----------------|---------|
| Type | | Rated DC Voltage | | Capacitance Code (μF)* | Tolerance Code | Size | Package Code** | Reel Size | RoHs Compliant | pb Free |

* Capacitance Code: First two digits represent significant figure, third digit represents multiplier (number of zeros).
 ** Package Code: TR = Tape & Reel.

SPECIFICATIONS

| Performance Characteristics | | | | | | | |
|--|--------------------------------------|--|----|----|----|----|----|
| Operating Temperature Range | -55°C ~ +105°C. | | | | | | |
| Voltage Range | 6.3VDC ~ 50VDC. | | | | | | |
| Capacitance Range | 4.7μF ~ 6800μF. | | | | | | |
| Capacitance Tolerance | ±20%. | | | | | | |
| Maximum Dissipation Factor (20°C, 120Hz) | Rated Voltage (WVDC) | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | DF% | 28 | 24 | 22 | 16 | 14 | 14 |
| Maximum Leakage Current (20°C) (after 2 minutes) | 0.01CV or 3μA, whichever is greater. | | | | | | |
| Load Life Test (105°C, 5000 hours for D ≥ 8.0mm) (105°C, 2000 hours for D < 8.0mm) | Capacitance Change | Within ±30% of initial measured value. | | | | | |
| | DF% | Less than 300% of specified value. | | | | | |
| | Leakage Current | Within maximum specified value. | | | | | |

STANDARD PRODUCT TABLE (dØ X L(mm))

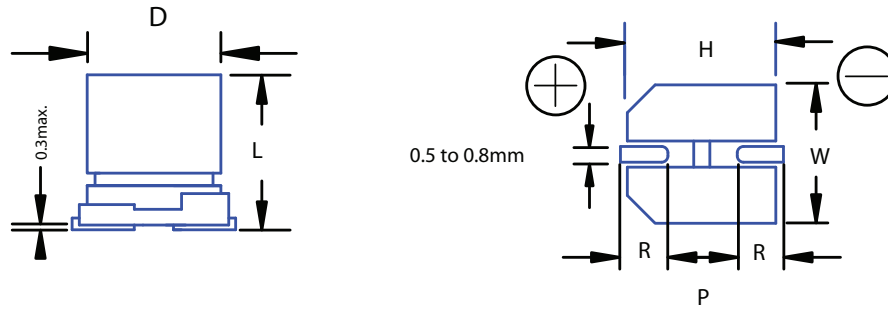
| Cap. (μF) | WVDC | | | | | |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 6.3 | 10 | 16 | 25 | 35 | 50 |
| 4.7 | | | | | 4 x 6 | 4 x 6 |
| 10 | | | | 4 x 6 | 5 x 6 | 6.3 x 6 |
| 15 | | | 4 x 6 | 5 x 6 | 5 x 6 | 6.3 x 6 |
| 22 | | 4 x 6 | 5 x 6 | 5 x 6 | 5 x 6 | 6.3 x 6 |
| 27 | 4 x 6 | 5 x 6 | 5 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 |
| 33 | 5 x 6 | 5 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 |
| 47 | 5 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 |
| 56 | 5 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 | 8 x 10.2 |
| 68 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 | 8 x 10.2 |
| 100 | 6.3 x 6 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 | 8 x 10.2 | 8 x 10.2 |
| 150 | 6.3 x 6 | 6.3 x 6 | 6.3 x 7.7 | 8 x 10.2 | 8 x 10.2 | 10 x 10.2 |
| 220 | 6.3 x 6 | 6.3 x 7.7 | 6.3 x 7.7 | 8 x 10.2 | 8 x 10.2 | 10 x 10.2 |
| 330 | 6.3 x 7.7 | 8 x 10.2 | 8 x 10.2 | 8 x 10.2 | 10 x 10.2 | 12.5 x 13.5 |
| 470 | 8 x 10.2 | 8 x 10.2 | 8 x 10.2 | 10 x 10.2 | 12.5 x 13.5 | 16 x 16.5 |
| 680 | 8 x 10.2 | 10 x 10.2 | 10 x 10.2 | 12.5 x 13.5 | 12.5 x 13.5 | 16 x 16.5 |
| 1000 | 8 x 10.2 | 10 x 10.2 | 12.5 x 13.5 | | 16 x 16.5 | 16 x 16.5 |
| 1500 | 10 x 10.2 | 12.5 x 13.5 | | 16 x 16.5 | 16 x 16.5 | |
| 2200 | 12.5 x 13.5 | | | 16 x 16.5 | | |
| 3300 | | | 16 x 16.5 | | | |
| 4700 | | 16 x 16.5 | | | | |
| 6800 | 16 x 16.5 | | | | | |

MAXIMUM RIPPLE (mA rms @ 100kHz & 105°C)

| Cap. (µF) | WVDC | | | | | |
|-----------|------|------|------|------|------|------|
| | 6.3 | 10 | 16 | 25 | 35 | 50 |
| 4.7 | | | | | 90 | 64 |
| 10 | | | | 90 | 170 | 215 |
| 15 | | | 90 | 170 | 170 | 215 |
| 22 | | 90 | 170 | 170 | 170 | 215 |
| 27 | 90 | 170 | 170 | 250 | 250 | 243 |
| 33 | 170 | 170 | 250 | 250 | 250 | 243 |
| 47 | 170 | 250 | 250 | 250 | 250 | 243 |
| 56 | 170 | 250 | 250 | 250 | 300 | 300 |
| 68 | 250 | 250 | 250 | 250 | 300 | 300 |
| 100 | 250 | 250 | 250 | 300 | 450 | 300 |
| 150 | 250 | 250 | 300 | 450 | 450 | 490 |
| 220 | 250 | 300 | 300 | 450 | 450 | 490 |
| 330 | 300 | 450 | 450 | 450 | 670 | 620 |
| 470 | 450 | 450 | 450 | 670 | 900 | 1610 |
| 680 | 450 | 670 | 670 | 900 | 900 | 1610 |
| 1000 | 450 | 670 | 900 | | 1800 | 1610 |
| 1500 | 670 | 900 | | 1800 | 1800 | |
| 2200 | 900 | | | 1800 | | |
| 3300 | | | 1800 | | | |
| 4700 | | 1800 | | | | |
| 6800 | 1800 | | | | | |

MAXIMUM IMPEDANCE (Ω @ 100kHz & 20°C)

| Cap. (µF) | WVDC | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|
| | 6.3 | 10 | 16 | 25 | 35 | 50 |
| 4.7 | | | | | 1.450 | 2.550 |
| 10 | | | | 1.450 | 0.700 | 0.520 |
| 15 | | | 1.450 | 0.700 | 0.700 | 0.520 |
| 22 | | 1.450 | 0.700 | 0.700 | 0.700 | 0.520 |
| 27 | 1.450 | 0.700 | 0.700 | 0.390 | 0.390 | 0.440 |
| 33 | 0.700 | 0.700 | 0.390 | 0.390 | 0.390 | 0.440 |
| 47 | 0.700 | 0.390 | 0.390 | 0.390 | 0.390 | 0.440 |
| 56 | 0.700 | 0.390 | 0.390 | 0.390 | 0.300 | 0.340 |
| 68 | 0.390 | 0.390 | 0.390 | 0.390 | 0.300 | 0.340 |
| 100 | 0.390 | 0.390 | 0.390 | 0.300 | 0.170 | 0.340 |
| 150 | 0.390 | 0.390 | 0.300 | 0.170 | 0.170 | 0.210 |
| 220 | 0.390 | 0.300 | 0.300 | 0.170 | 0.170 | 0.210 |
| 330 | 0.300 | 0.170 | 0.170 | 0.170 | 0.090 | 0.140 |
| 470 | 0.170 | 0.170 | 0.170 | 0.090 | 0.066 | 0.073 |
| 680 | 0.170 | 0.090 | 0.090 | 0.066 | 0.066 | 0.073 |
| 1000 | 0.170 | 0.090 | 0.066 | | 0.035 | 0.073 |
| 1500 | 0.090 | 0.066 | | 0.035 | 0.035 | |
| 2200 | 0.066 | | | 0.035 | | |
| 3300 | | | 0.035 | | | |
| 4700 | | 0.035 | | | | |
| 6800 | 0.035 | | | | | |



DIMENSIONS (mm)

| D +0.5 Max. | L | W ± 0.2 | H ± 0.2 | R | P ± 0.2 |
|-------------|------------|---------|---------|-------------|---------|
| 4.0 | 6.0 ± 0.3 | 4.3 | 4.3 | 1.8 ~ 2.2 | 1.0 |
| 5.0 | 6.0 ± 0.3 | 5.3 | 5.3 | 2.1 ~ 2.5 | 1.4 |
| 6.3 | 6.0 ± 0.3 | 6.6 | 6.6 | 2.35 ~ 2.75 | 2.2 |
| 6.3 | 7.7 ± 0.3 | 6.6 | 6.6 | 2.35 ~ 2.75 | 2.2 |
| 8.0 | 10.2 ± 0.5 | 8.3 | 8.3 | 2.7 ~ 3.1 | 3.2 |
| 10.0 | 10.2 ± 0.5 | 10.3 | 10.3 | 3.0 ~ 3.4 | 4.6 |
| 12.5 | 13.5 ± 0.5 | 12.8 | 12.8 | 4.25 ~ 4.65 | 4.6 |
| 16.0 | 16.5 +0.5 | 16.3 | 16.3 | 4.95 ~ 5.35 | 7.0 |