

## FEATURES

- LOW PROFILE 5.4mm HEIGHT
- BI-POLAR
- LIFE UP TO 500 HRS. X 2 ALT.
- DESIGNED FOR AUTOMATIC MOUNTING
- SOLVENT RESISTANT



## PART NUMBERING

| Part Number Example: MXNW-025/100M6X5TR13FG   |   |                  |   |                        |                |      |                |           |                |
|---|---|------------------|---|------------------------|----------------|------|----------------|-----------|----------------|
| MXNW  | - | 025              | / | 100                    | M              | 6X5  | TR             | 13        | F              |
| Type  |   | Rated DC Voltage |   | Capacitance Code (μF)* | Tolerance Code | Size | Package Code** | Reel Size | RoHs Compliant |
| * 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 ~ 63VDC.                        |    |    |    |    |    |    |
| Capacitance Range                                |                      |  | 1μF ~ 47μF.                            |    |    |    |    |    |    |
| Capacitance Tolerance                            |                      |  | ±20%.                                  |    |    |    |    |    |    |
| Maximum Dissipation Factor (20°C, 120Hz)         | Rated Voltage (WVDC) |  | 6.3                                    | 10 | 16 | 25 | 35 | 50 | 63 |
|  | DF%                  |  | 24                                     | 22 | 20 | 20 | 20 | 18 | 16 |
| Maximum Leakage Current (20°C) (after 1 minutes) |                      |  | 0.03CV +6μA                            |    |    |    |    |    |    |
| Load Life Test (105°C, 500 hours x2 alternately) | Capacitance Change   |  | Within ±25% of initial measured value. |    |    |    |    |    |    |
|  | DF%                  |  | Less than 200% 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        | 63        |
| 1.0       |           |           |           |           |           | 4 x 5.4   | 4 x 5.4   |
| 2.2       |           |           |           |           | 4 x 5.4   | 5 x 5.4   | 5 x 5.4   |
| 3.3       |           |           |           | 4 x 5.4   | 5 x 5.4   | 5 x 5.4   | 6.3 x 5.4 |
| 4.7       |           |           | 4 x 5.4   | 5 x 5.4   | 5 x 5.4   | 6.3 x 5.4 | 6.3 x 5.4 |
| 10        |           | 4 x 5.4   | 5 x 5.4   | 6.3 x 5.4 | 6.3 x 5.4 | 6.3 x 5.4 |           |
| 22        | 5 x 5.4   | 6.3 x 5.4 | 6.3 x 5.4 |           |           |           |           |
| 33        | 6.3 x 5.4 | 6.3 x 5.4 | 6.3 x 5.4 |           |           |           |           |
| 47        | 6.3 x 5.4 |           |           |           |           |           |           |

**MAXIMUM RIPPLE (mA rms @ 120HZ & 105°C)**

| Cap. (μF) | WVDC |    |    |    |     |    |    |
|-----------|------|----|----|----|-----|----|----|
|           | 6.3  | 10 | 16 | 25 | 35  | 50 | 63 |
| 1.0       |      |    |    |    |     | 7  | 7  |
| 2.2       |      |    |    |    | 5.9 | 10 | 10 |
| 3.3       |      |    |    | 7  | 12  | 13 | 13 |
| 4.7       |      |    | 8  | 13 | 14  | 16 | 16 |
| 10        |      | 12 | 17 | 20 | 21  | 18 |    |
| 22        | 22   | 25 | 27 |    |     |    |    |
| 33        | 27   | 30 | 40 |    |     |    |    |
| 47        | 33   |    |    |    |     |    |    |

**DIMENSIONS (mm)**

| SIZE D X L | D +0.5 | L MAX | W ±0.2 | C ±0.2 | R       | P ±0.2 |
|------------|--------|-------|--------|--------|---------|--------|
| 4 X 5.4    | 4      | 5.5   | 4.3    | 5      | 0.5~0.8 | 1.0    |
| 5 X 5.4    | 5      | 5.5   | 5.3    | 6      | 0.5~0.8 | 1.4    |
| 6.3 X 5.4  | 6.3    | 5.5   | 6.6    | 7.3    | 0.5~0.8 | 2.2    |

