

查询"450MXG56M20X25"供应商

## MXG SERIES

### 105°C Miniaturized, Snap-in Terminal Type

## ◆ FEATURES

- Load Life : 105°C 2000 hours.
- Smaller size than MXC series.
- RoHS compliance.



## ◆ SPECIFICATIONS

| Items                               | Characteristics                                                                                                                                                                                                                                                                                                                                                                                    |         |  |                      |                                   |                    |                                            |                 |                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|----------------------|-----------------------------------|--------------------|--------------------------------------------|-----------------|------------------------------------|
| Category Temperature Range          | -25~+105℃                                                                                                                                                                                                                                                                                                                                                                                          |         |  |                      |                                   |                    |                                            |                 |                                    |
| Rated Voltage Range                 | 160~450V.DC                                                                                                                                                                                                                                                                                                                                                                                        |         |  |                      |                                   |                    |                                            |                 |                                    |
| Capacitance Tolerance               | ±20% (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                  |         |  |                      |                                   |                    |                                            |                 |                                    |
| Leakage Current(MAX)                | I=3√CV (After 5 minutes application of rated voltage)<br>I=Leakage Current( μ A)                      V=Rated Voltage(V)                      C=Rated Capacitance( μ F)                                                                                                                                                                                                                            |         |  |                      |                                   |                    |                                            |                 |                                    |
| Dissipation Factor(MAX)<br>(tan δ ) | 0.2 (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                   |         |  |                      |                                   |                    |                                            |                 |                                    |
| Impedance Ratio(MAX)                | <table><tr><td>Rated Voltage<br/>(V)</td><td>160~250</td><td>400~450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>8</td></tr></table> (120Hz)                                                                                                                                                                                                                                                 |         |  | Rated Voltage<br>(V) | 160~250                           | 400~450            | Z(-25℃)/Z(20℃)                             | 4               | 8                                  |
| Rated Voltage<br>(V)                | 160~250                                                                                                                                                                                                                                                                                                                                                                                            | 400~450 |  |                      |                                   |                    |                                            |                 |                                    |
| Z(-25℃)/Z(20℃)                      | 4                                                                                                                                                                                                                                                                                                                                                                                                  | 8       |  |                      |                                   |                    |                                            |                 |                                    |
| Endurance                           | After applying rated voltage with rated ripple current for 2000hrs at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table> |         |  | Capacitance Change   | Within ±20% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. |
| Capacitance Change                  | Within ±20% of the initial value.                                                                                                                                                                                                                                                                                                                                                                  |         |  |                      |                                   |                    |                                            |                 |                                    |
| Dissipation Factor                  | Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                         |         |  |                      |                                   |                    |                                            |                 |                                    |
| Leakage Current                     | Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                 |         |  |                      |                                   |                    |                                            |                 |                                    |

### ◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency<br>(Hz) |           | 60(50) | 120  | 500  | 1k   | 10k $\leq$ |
|-------------------|-----------|--------|------|------|------|------------|
| Coefficient       | 160~250WV | 0.80   | 1.00 | 1.20 | 1.30 | 1.50       |
|                   | 400~450WV | 0.80   | 1.00 | 1.20 | 1.25 | 1.40       |

**◆PART NUMBER**

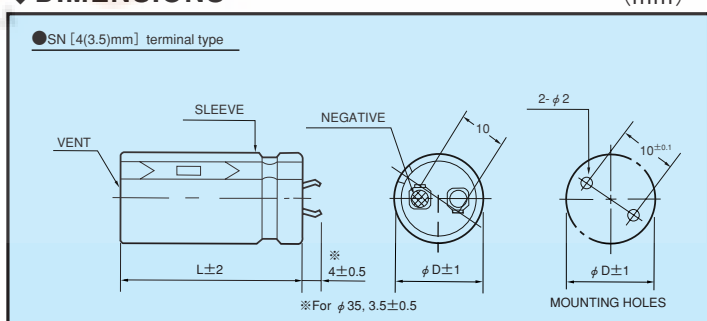
|                |                |                   |                       |                |               |                |
|----------------|----------------|-------------------|-----------------------|----------------|---------------|----------------|
| <div>□□□</div> | <div>MXG</div> | <div>□□□□□</div>  | <div>□</div>          | <div>OOE</div> | <div>SN</div> | <div>D×L</div> |
| Rated Voltage  | Series         | Rated Capacitance | Capacitance Tolerance | Option         | Terminal Code | Case Size      |

## ◆ Option

|               |       |
|---------------|-------|
|               | Code  |
| without plate | OOE   |
| with plate    | Blank |

## ◆ DIMENSIONS

(mm)



**◆STANDARD SIZE, RATED RIPPLE CURRENT**

| Cap<br>( $\mu$ F) | WV<br>$\phi$ D | 160         |             |             |             |             | 180         |             |             |             |             |
|-------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                   |                | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   |
| 330               |                | 20×25; 1.17 |             |             |             |             | 20×25; 1.20 |             |             |             |             |
| 390               |                | 20×25; 1.28 |             |             |             |             | 20×30; 1.28 | 22×25; 1.28 |             |             |             |
| 470               |                | 20×30; 1.40 | 22×25; 1.40 |             |             |             | 20×35; 1.38 | 22×30; 1.38 |             |             |             |
| 560               |                | 20×35; 1.50 | 22×30; 1.50 |             |             |             | 20×40; 1.50 | 22×30; 1.50 | 25×25; 1.50 |             |             |
| 680               |                | 20×40; 1.70 | 22×30; 1.70 | 25×25; 1.70 |             |             | 20×45; 1.70 | 22×35; 1.70 | 25×30; 1.70 |             |             |
| 820               |                |             | 22×35; 2.00 | 25×30; 2.00 |             |             |             | 22×40; 2.00 | 25×35; 2.00 | 30×25; 2.00 |             |
| 1000              |                |             | 22×40; 2.20 | 25×35; 2.20 | 30×25; 2.20 |             |             |             | 25×40; 2.20 | 30×30; 2.20 | 35×25; 2.20 |
| 1200              |                |             |             | 25×40; 2.30 | 30×30; 2.30 | 35×25; 2.30 |             |             | 25×45; 2.30 | 30×35; 2.30 | 35×30; 2.30 |
| 1500              |                |             |             | 25×45; 2.50 | 30×35; 2.50 | 35×30; 2.50 |             |             | 25×50; 2.50 | 30×40; 2.50 | 35×30; 2.50 |
| 1800              |                |             |             |             | 30×40; 2.70 | 35×35; 2.70 |             |             |             | 30×45; 2.70 | 35×35; 2.70 |
| 2200              |                |             |             |             | 30×45; 2.90 | 35×40; 2.90 |             |             |             | 30×50; 2.90 | 35×40; 2.90 |
| 2700              |                |             |             |             |             | 35×45; 3.10 |             |             |             |             | 35×50; 3.10 |

| Cap<br>( $\mu$ F) | WV<br>$\phi$ D | 200         |             |             |             |             | 220         |             |             |             |             |
|-------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                   |                | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   |
| 220               |                |             |             |             |             |             | 20×25; 0.98 |             |             |             |             |
| 270               |                | 20×25; 0.99 |             |             |             |             | 20×30; 1.08 | 22×25; 1.08 |             |             |             |
| 330               |                | 20×30; 1.20 | 22×25; 1.20 |             |             |             | 20×30; 1.26 | 22×25; 1.26 |             |             |             |
| 390               |                | 20×30; 1.34 | 22×25; 1.34 |             |             |             | 20×35; 1.34 | 22×30; 1.34 | 25×25; 1.34 |             |             |
| 470               |                | 20×35; 1.48 | 22×30; 1.48 | 25×25; 1.48 |             |             | 20×40; 1.48 | 22×35; 1.48 | 25×25; 1.48 |             |             |
| 560               |                | 20×40; 1.60 | 22×35; 1.60 | 25×25; 1.60 |             |             | 20×45; 1.61 | 22×40; 1.61 | 25×30; 1.61 | 30×25; 1.61 |             |
| 680               |                |             | 22×40; 1.75 | 25×30; 1.75 | 30×25; 1.75 |             |             | 22×45; 1.78 | 25×35; 1.78 | 30×25; 1.78 |             |
| 820               |                |             | 22×45; 2.04 | 25×35; 2.04 | 30×25; 2.04 |             |             | 22×50; 1.93 | 25×40; 1.93 | 30×30; 1.93 | 35×25; 1.93 |
| 1000              |                |             |             | 25×45; 2.30 | 30×30; 2.30 |             |             |             | 25×50; 2.33 | 30×35; 2.33 | 35×30; 2.33 |
| 1200              |                |             |             | 25×50; 2.65 | 30×35; 2.65 | 35×30; 2.65 |             |             |             | 30×40; 2.50 | 35×35; 2.50 |
| 1500              |                |             |             |             | 30×45; 2.80 | 35×35; 2.80 |             |             |             | 30×50; 2.76 | 35×40; 2.76 |
| 1800              |                |             |             |             | 30×50; 3.08 | 35×40; 3.08 |             |             |             |             | 35×45; 3.11 |
| 2200              |                |             |             |             |             | 35×45; 3.48 |             |             |             |             |             |

| Cap<br>( $\mu$ F) | WV<br>$\phi$ D | 250         |             |             |             |             | 400         |             |             |             |             |
|-------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                   |                | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   |
| 68                |                |             |             |             |             |             | 20×25; 0.49 |             |             |             |             |
| 82                |                |             |             |             |             |             | 20×25; 0.57 | 22×25; 0.57 |             |             |             |
| 100               |                |             |             |             |             |             | 20×30; 0.70 | 22×25; 0.70 |             |             |             |
| 120               |                |             |             |             |             |             | 20×35; 0.75 | 22×30; 0.75 | 25×25; 0.75 |             |             |
| 150               |                |             |             |             |             |             | 20×40; 0.88 | 22×35; 0.88 | 25×25; 0.88 |             |             |
| 180               |                |             |             |             |             |             |             | 22×35; 0.95 | 25×30; 0.95 | 30×25; 0.95 |             |
| 220               |                | 20×25; 1.00 |             |             |             |             |             | 22×45; 1.10 | 25×35; 1.10 | 30×25; 1.10 |             |
| 270               |                | 20×30; 1.10 | 22×25; 1.10 |             |             |             |             | 22×50; 1.22 | 25×40; 1.22 | 30×30; 1.22 | 35×25; 1.22 |
| 330               |                | 20×35; 1.20 | 22×30; 1.20 | 25×25; 1.20 |             |             |             |             | 25×45; 1.44 | 30×35; 1.44 | 35×30; 1.44 |
| 390               |                | 20×40; 1.30 | 22×35; 1.30 | 25×25; 1.30 |             |             |             |             | 25×50; 1.55 | 30×40; 1.55 | 35×30; 1.55 |
| 470               |                | 20×45; 1.40 | 22×40; 1.40 | 25×30; 1.40 | 30×25; 1.40 |             |             |             |             | 30×45; 1.68 | 35×35; 1.66 |
| 560               |                |             | 22×45; 1.50 | 25×35; 1.50 | 30×25; 1.50 |             |             |             |             | 30×50; 1.90 | 35×40; 1.90 |
| 680               |                |             | 22×50; 1.70 | 25×40; 1.70 | 30×30; 1.70 | 35×25; 1.70 |             |             |             |             | 35×45; 2.12 |
| 820               |                |             |             | 25×45; 2.00 | 30×35; 2.00 | 35×30; 2.00 |             |             |             |             |             |
| 1000              |                |             |             |             | 30×40; 2.20 | 35×35; 2.20 |             |             |             |             |             |
| 1200              |                |             |             |             | 30×45; 2.30 | 35×35; 2.30 |             |             |             |             |             |
| 1500              |                |             |             |             |             | 35×45; 2.50 |             |             |             |             |             |
| 1800              |                |             |             |             |             | 35×50; 2.70 |             |             |             |             |             |

| Cap<br>( $\mu$ F) | WV<br>$\phi$ D | 420         |             |             |             |             | 450         |             |             |             |             |
|-------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                   |                | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   | $\phi$ 20   | $\phi$ 22   | $\phi$ 25   | $\phi$ 30   | $\phi$ 35   |
| 56                |                |             |             |             |             |             | 20×25; 0.44 |             |             |             |             |
| 68                |                | 20×25; 0.50 |             |             |             |             | 20×25; 0.50 | 22×25; 0.50 |             |             |             |
| 82                |                | 20×25; 0.64 | 22×25; 0.64 |             |             |             | 20×30; 0.64 | 22×25; 0.64 |             |             |             |
| 100               |                | 20×30; 0.66 | 22×25; 0.66 | 25×25; 0.66 |             |             | 20×35; 0.69 | 22×30; 0.69 | 25×25; 0.69 |             |             |
| 120               |                | 20×35; 0.81 | 22×30; 0.81 | 25×25; 0.81 |             |             | 20×35; 0.72 | 22×30; 0.72 | 25×25; 0.72 |             |             |
| 150               |                | 20×40; 0.84 | 22×35; 0.84 | 25×30; 0.84 | 30×25; 0.84 |             | 20×45; 0.79 | 22×35; 0.79 | 25×30; 0.79 | 30×25; 0.79 |             |
| 180               |                | 20×45; 0.91 | 22×40; 0.91 | 25×30; 0.91 | 30×25; 0.91 |             |             | 22×40; 0.87 | 25×35; 0.87 | 30×25; 0.87 |             |
| 220               |                |             | 22×45; 1.05 | 25×35; 1.05 | 30×30; 1.05 | 35×25; 1.05 |             | 22×50; 1.05 | 25×40; 1.05 | 30×30; 1.05 | 35×25; 1.05 |
| 270               |                |             |             | 25×40; 1.25 | 30×30; 1.25 | 35×25; 1.25 |             |             | 25×45; 1.23 | 30×35; 1.23 | 35×30; 1.23 |
| 330               |                |             |             | 25×50; 1.42 | 30×35; 1.42 | 35×30; 1.42 |             |             | 25×50; 1.38 | 30×40; 1.38 | 35×30; 1.38 |
| 390               |                |             |             |             | 30×40; 1.61 | 35×35; 1.61 |             |             |             | 30×45; 1.61 | 35×35; 1.61 |
| 470               |                |             |             |             | 30×45; 1.86 | 35×40; 1.86 |             |             |             | 30×50; 1.78 | 35×40; 1.78 |
| 560               |                |             |             |             |             | 35×45; 2.10 |             |             |             |             | 35×45; 1.99 |
| 680               |                |             |             |             |             | 35×50; 2.20 |             |             |             |             |             |

↑ Ripple Current (A r.m.s./120Hz, 105°C)  
Case Size  $\phi$  D×L(mm)