

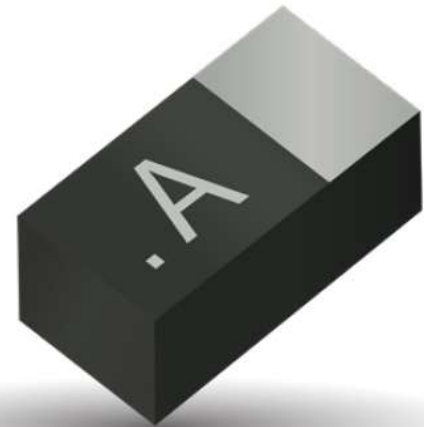
# F38 Series ----- F380J105MUA

## Conductive Polymer, Miniature, Undertab Solid Electrolytic Chip Capacitors



### PRODUCT SPECIFICATIONS :

|   |                 |
|---|-----------------|
| Nominal Capacitance @ 120Hz   | 1 $\mu$ F       |
| Capacitance Tolerance   | M = $\pm$ 20%   |
| Rated Voltage DC ( $V_R$ )  | < 85°C 6.3 V    |
| Category Voltage DC ( $V_C$ )   | < 105°C 5 V     |
| Surge Voltage ( $V_S$ )   | < 85°C 8 V      |
| Temperature Range   | -55°C to +105°C |
| DC Leakage Current max. @ $V_R$   | 0.6 $\mu$ A     |
| Dissipation Factor max. @ 120Hz   | 6 %             |
| ESR max. @ 100kHz   | 1500 m $\Omega$ |
| Typical weight (U case)   | 1.2 mg          |
| Moisture sensitivity level:   | MSL 3           |
| Reflow specification: meets J-STD-020 standard  |                 |
| 100% surge current tested   |                 |
| All technical data relates to an ambient temperature of +20°C, Capacitance is measured at 120Hz, 0.5RMS with DC bias of 1.5V, DC Leakage Current is measured at rated voltage after 5 minutes |                 |

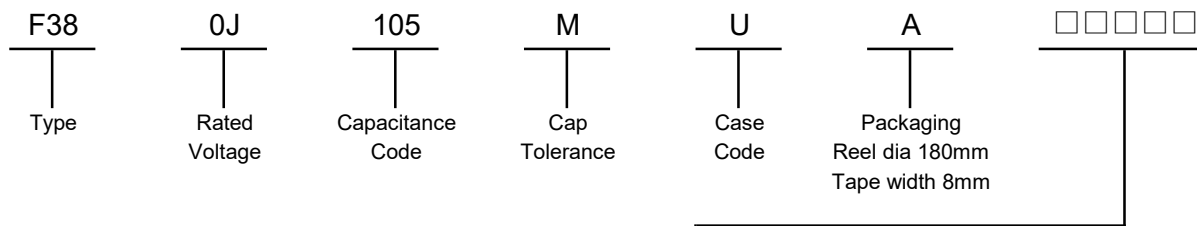


LEAD-FREE  
LEAD-FREE COMPATIBLE  
COMPONENT



| RMS value of Ripple Current (mA)<br>@100kHz |      |      |       |
|---|------|------|-------|
| 45°C  | 60°C | 85°C | 105°C |
| 100   | —    | 70   | 50    |

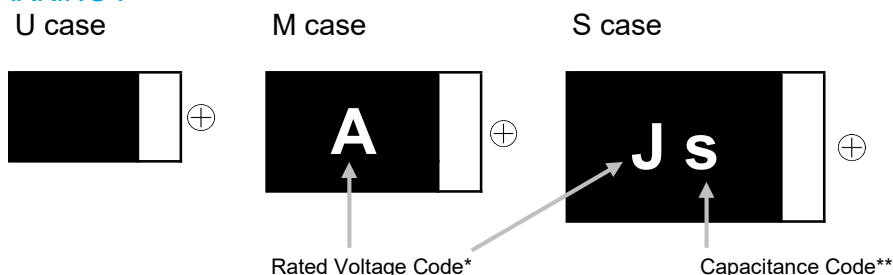
### HOW TO ORDER :



Special Code

|               |  |
|---------------|--|
| AXE           | Rated temp. 60°C, H dimension 1.0mm Max          |
| AXEH3         | Rated temp. 60°C, H dimension 1.0mm Max, Low ESR |
| LZT           | Rated temp. 60°C                                 |
| LZTH1         | Rated temp. 60°C, Low ESR                        |
| AH1, AH2, AH3 | Low ESR  |
| H8Z           | H dimension 0.8mm Max                            |

### MARKING :



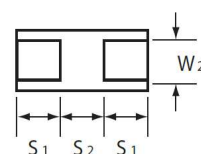
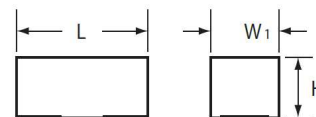
| RV  | * | Cap | ** |
|-----|---|-----|----|
| 4   | G | 1   | A  |
| 6.3 | J | 2.2 | J  |
| 8   | K | 4.7 | S  |
| 10  | A | 10  | a  |
| 25  | E | 22  | J  |
| 30  | S | 33  | n  |
|     |   | 47  | s  |
|     |   | 68  | w  |
|     |   | 100 | A  |

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CASE DIMENSIONS: millimetres

| Case Code | EIA Code | EIA Metric | L         | W <sub>1</sub> | W <sub>2</sub> | H         | S <sub>1</sub> | S <sub>2</sub> |
|-----------|----------|------------|-----------|----------------|----------------|-----------|----------------|----------------|
| U         | 0402     | 1106-06    | 1.10±0.05 | 0.60±0.05      | 0.35±0.05      | 0.55±0.05 | 0.3±0.05       | 0.5±0.05       |



PACKAGING INFORMATION :

| Packaging Code | Reel Size | Tape Width | Quantity (pcs) |
|----------------|-----------|------------|----------------|
| A              | 180 mm    | 8 mm       | 10,000         |

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Version: 10/2021

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