

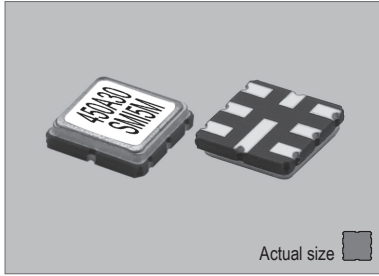
**38SMF SERIES** (2-POLE MCF IN SINGLE 3.8x3.8 mm PACKAGE) **STANDARD SMD MCF**

**STANDARD SPECIFICATIONS**

- 2-POLE FILTERS
- OTHER FREQUENCIES
- PACKAGE SIZE 3.8x3.8 mm

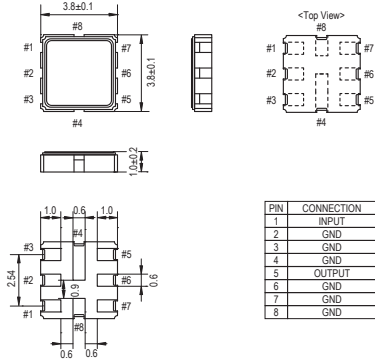
| Part Number | Nominal Frequency fo (MHz) | Oscillation Mode | Passband min. |       | Stopband max. |       | Attenuation Guaranteed min. |       | Ripple max. (dB) | Loss max. (dB) | Terminating Impedance (Ω // pF) | Operating Temperature (°C) | No. of Pole |
|-------------|----------------------------|------------------|---------------|-------|---------------|-------|-----------------------------|-------|------------------|----------------|---------------------------------|----------------------------|-------------|
|             |                            |                  | (dB)          | (kHz) | (dB)          | (kHz) | (dB)                        | (kHz) |                  |                |                                 |                            |             |
| 38SMF450A15 | 45.000                     | FUND             | 3             | ±7.5  | 13            | ±25.0 | 60                          | -910  | 1.0              | 3.0            | 560 // 4.5                      | -30 to +80                 | 2           |
| 38SMF450A30 | 45.000                     | FUND             | 3             | ±15   | 15            | ±60.0 | 60                          | -900  | 1.0              | 2.5            | 1100 // 1.0                     | -30 to +80                 | 2           |
| 38SMF463A15 | 46.350                     | FUND             | 3             | ±7.5  | 15            | ±25.0 | 70                          | -910  | 1.0              | 2.0            | 470 // 6.0                      | -30 to +80                 | 2           |

**38SMF**



Actual size  
0.042 gm (wt.)

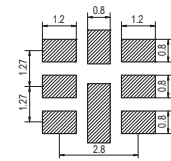
**38SMF**



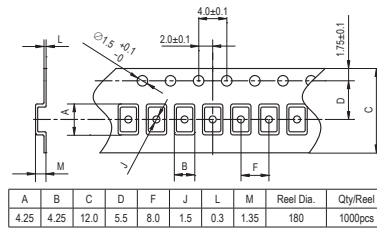
**PACKAGE DATA**

| Item             | Package | 38SMF                             |
|------------------|---------|-----------------------------------|
| Lid              |         | Metal                             |
| Base             |         | Ceramic                           |
| Sealing          |         | Seam                              |
| Terminal         |         | Tungsten (metalized)              |
| Terminal plating |         | Gold / Nickel (surface) / (under) |
| RoHS             |         | Compliant (Pb-free)               |

**SOLDERING PATTERN**



**TAPE SPECIFICATIONS**



XTAL

CLK OSC

VCXO

TCXO

OCXO

MCF