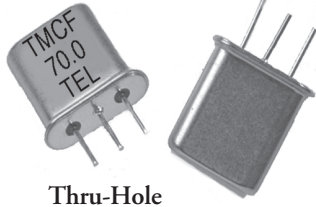
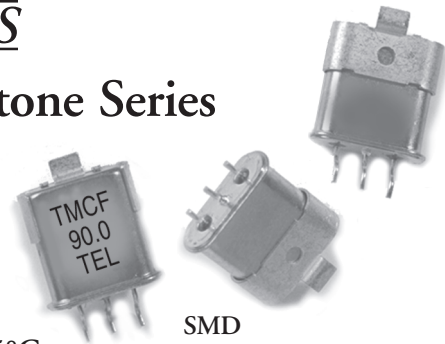


CRYSTAL FILTERS

TMCF 70 & 90 MHz Overtone Series



Thru-Hole



SMD

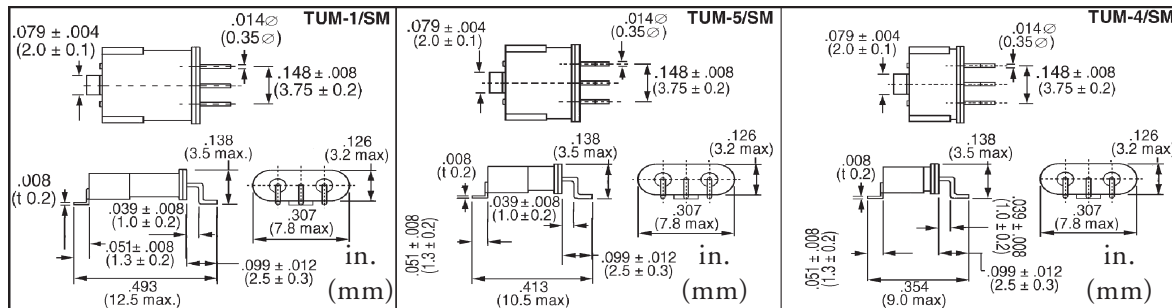
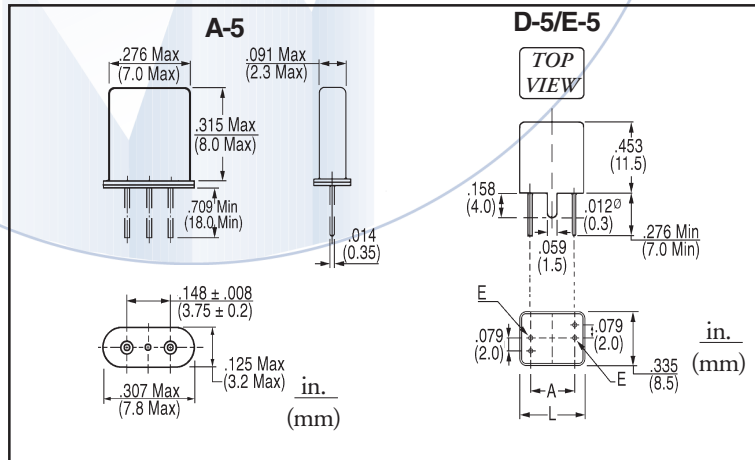
Operating Temperature Range -30 to 75°C

| Model | Frequency | Pole | Pass Band dB kHz | Stop Band dB kHz | Ripple dB (Max.) | Loss dB (Max.) | Terminating Impedance Ω // (pF) | Coupling Cap (pF) | Case Code |
|-----------|-----------|------|---------------------|---------------------|---------------------|-------------------|------------------------------------|----------------------|-----------|
| T70 U 15A | 70 | 2 | 3 ± 7.5 | 18 ± 30.0 35 ± 910 | 1.0 | 2.0 | 2000 // -1 | | A-5 |
| T70 U 15B | 70 | 4 | 3 ± 7.5 | 35 ± 25.0 80 ± 910 | 1.0 | 3.0 | 2000 // -1 | -1 | A-5×2 |
| T70 U 20A | 70 | 2 | 3 ± 10.0 | 15 ± 30.0 35 ± 910 | 1.0 | 2.0 | 2500 // -1 | | A-5 |
| T70 U 20B | 70 | 4 | 3 ± 10.0 | 35 ± 40.0 80 ± 910 | 1.0 | 3.0 | 2500 // -1 | -1.5 | A-5×2 |
| T90 U 15A | 90 | 2 | 3 ± 7.5 | 18 ± 30.0 35 ± 910 | 1.0 | 2.0 | 2000 // -1 | | A-5 |
| T90 U 15B | 90 | 4 | 3 ± 7.5 | 35 ± 25.0 80 ± 910 | 1.0 | 3.0 | 2000 // -1 | -1 | A-5×2 |
| T90 U 20A | 90 | 2 | 3 ± 10.0 | 15 ± 30.0 35 ± 910 | 1.0 | 2.0 | 2500 // -1 | | A-5 |
| T90 U 20B | 90 | 4 | 3 ± 10.0 | 35 ± 40.0 80 ± 910 | 1.0 | 3.0 | 2500 // -1 | -1.5 | A-5×2 |
| T90 U 30B | 90 | 4 | 3 ± 15.0 | 30 ± 50.0 80 ± 910 | 1.0 | 3.0 | 4000 // -1 | -1 | A-5×2 |

CRYSTAL FILTER: TMCF 70MHz and 90MHz Series

CRYSTAL FILTER: TMCF 70 MHz and 90 MHz Series

| Case Code | A | L |
|-----------|------------|------------|
| D-5 | .291 (7.4) | .433(11.0) |
| E-5 | .386 (9.8) | .528(13.4) |



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