

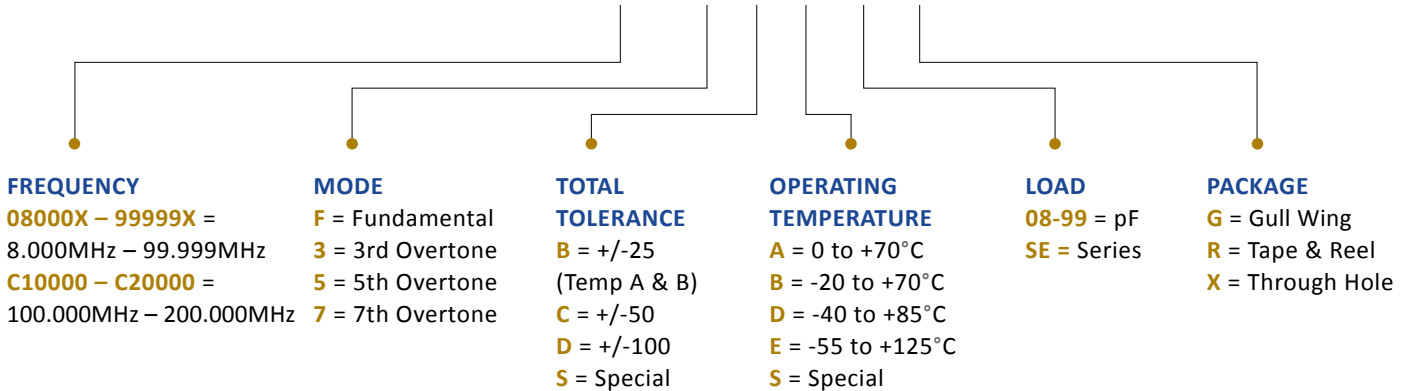
U1-Series Specifications



7.90L x 3.18W x 8.00H (mm)

PDI *U1-Series* provides a broad range of frequencies in a small profile, robust, high reliability UM1 resistance-weld enclosure. The U1 is available in a variety of frequency stabilities and tolerances, operating temperature ranges, and load capacitances and has excellent mechanical characteristics. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.

ex) **U1-25000X-F-C-D-08-X-X***



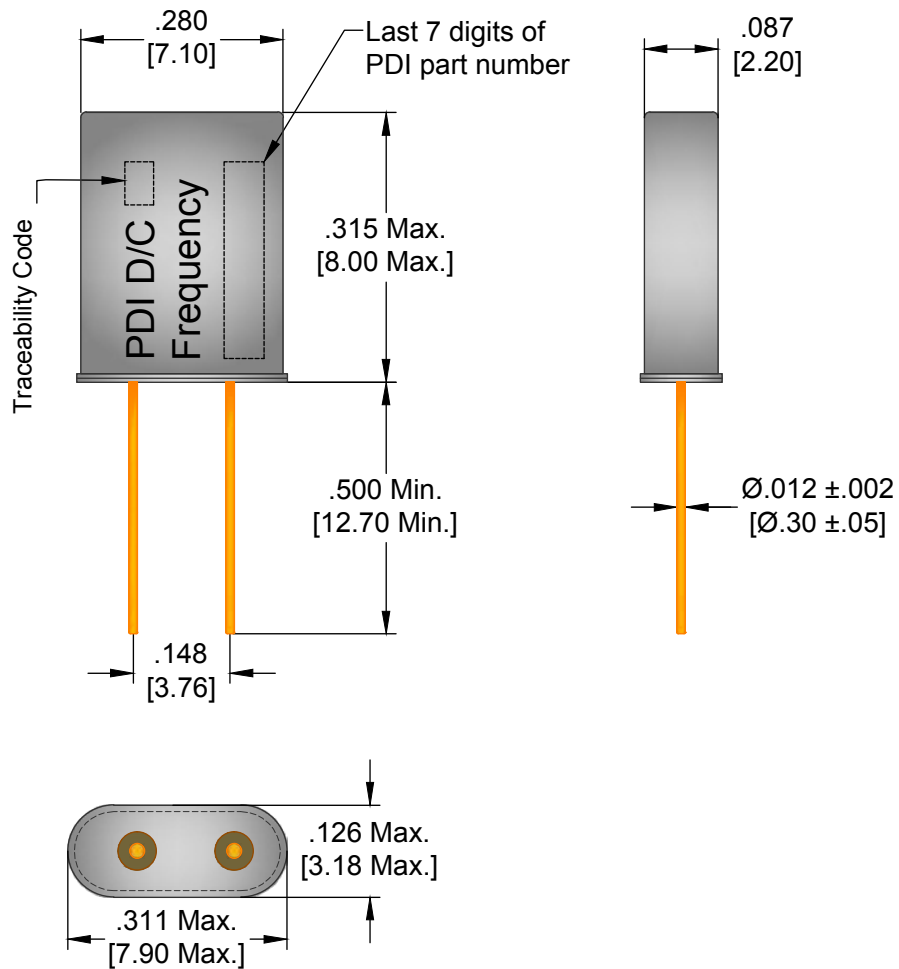
* (X) for standard or assigned for customization.

| Parameter | | Frequency Range | Units |
|---------------------------|------------------|----------------------------------|-------|
| | | 8.000000 to 200.000000 | MHz |
| Temperature Range | Operating | Per Chart | °C |
| | Storage | -55 to +125 | |
| Insulation Resistance | @ 100Vcc (Min.) | 500 | MΩ |
| Drive Level | (Max.) | 1 | mW |
| Aging | Per Year | ±3.0 | ppm |
| Shunt Capacitance (Co) | (Max.) | 7.0 | pF |
| Motional Capacitance (C1) | | Consult Applications Engineering | |
| Motional Inductance (L1) | | Consult Applications Engineering | |
| Frequency Range – MHz | Oscillation Mode | Series Resistance – Max. | Units |
| 8.000000 – 10.000000 | Fundamental | 80 | Ohms |
| >10.000000 – 13.000000 | | 60 | |
| >13.000000 – 20.000000 | | 40 | |
| >20.000000 – 30.000000 | | 30 | |
| >25.000000 – 40.000000 | | 60 | |
| >40.000000 – 60.000000 | 3rd Overtone | 50 | |
| >60.000000 – 80.000000 | | 60 | |
| >80.000000 – 125.000000 | | 70 | |
| >75.000000 – 100.000000 | 5th Overtone | 80 | |
| >100.000000 – 150.000000 | | 90 | |
| >125.000000 – 200.000000 | | 100 | |

U1-Series 7.90 x 3.18 x 8.00 (mm)



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Mechanical Shock: MIL-STD-202 Method 213, Condition C
Vibration: MIL-STD-202, Method 201, 204, and 214
Hermeticity: MIL-STD-202, Method 112
Solderability: IPC/EIA-STD-002A

NOTES:

Terminals are Au.
 Other options are available, please consult factory.
 All product is supplied *RoHS* and *REACH* compliant.
 Product can be supplied on Tape and Reel, on reels of 1,000 units.
 Not all Frequency/Temperature combinations are available.
 Decimal XXX = $\pm .008$, XX = $\pm .020$ Metric [XXX = $\pm .20$], [XX = $\pm .50$]
 Specifications subject to change without notice, last updated 4/1/13.