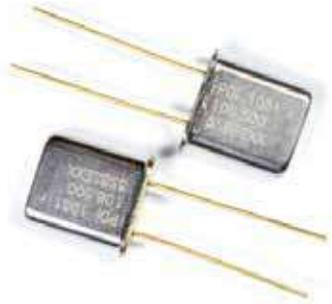


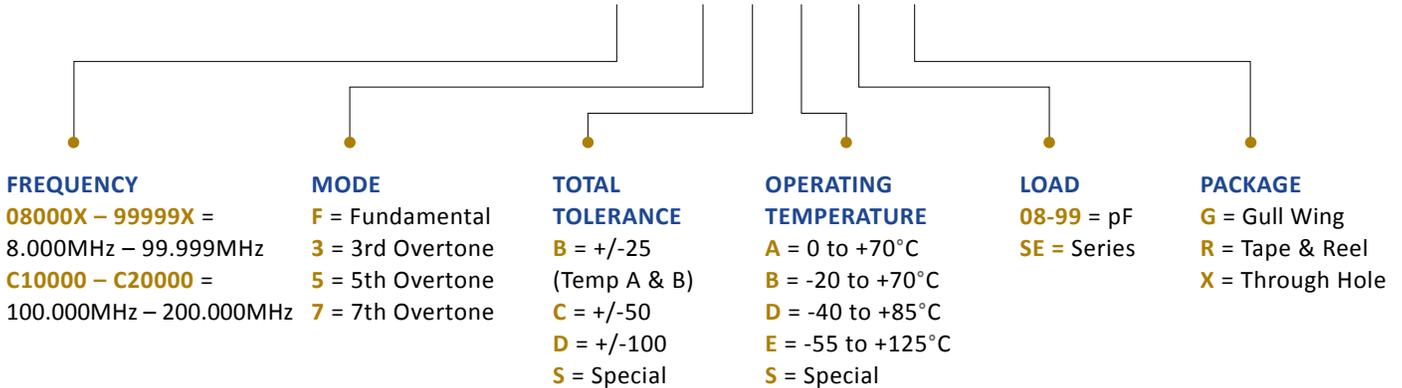
# U1-Series Specifications



**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\***



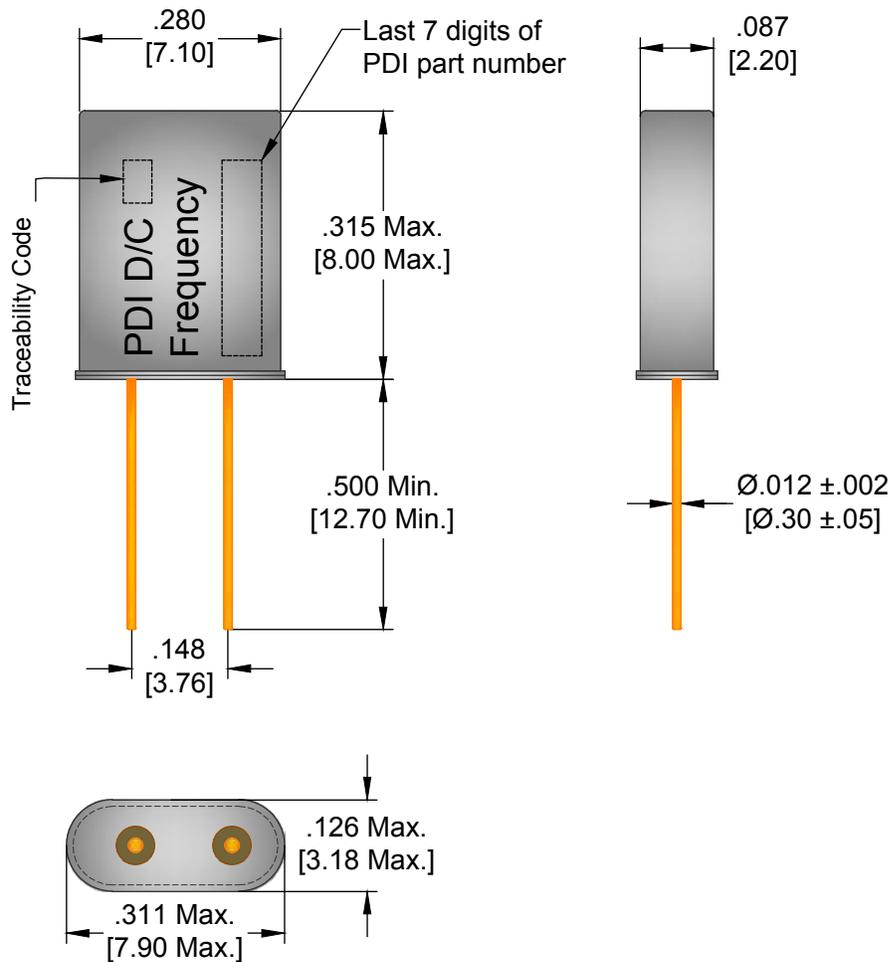
\* (X) for standard or assigned for customization.

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)



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.



**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.