

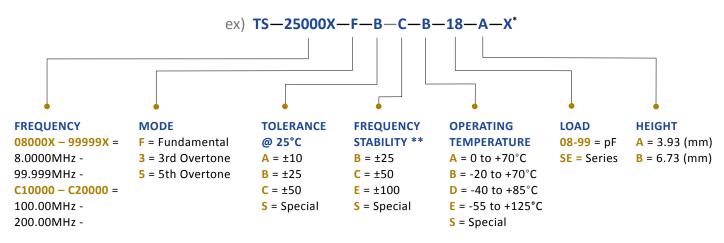
PRECISION DEVICES IN

TS-Series Specifications



 $A - 15.75D \times 3.93H (mm)$ $B - 15.75D \times 6.73H (mm)$

PDI *TS-Series* is a cold-welded hermetically sealed quartz crystal in a TO8 through-hole package. This crystal, designed to meet your most demanding specification, is available in standard or custom frequencies and/or with customized parameters. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.



** - AT-Cut Only.

*(X) for standard or assigned for custimization.

Parameter (AT-Cut)		Mode			
		Fundamental	3rd Overtone	5th Overtone	Units
Frequency Range		3.0000 to 25.0000	8.0000 to 50.0000	50.0000 to 100.0000	MHz
Frequency Tolerance	@ +25°C	Per Option		ppm	
Temperature Range	Operating	Per Option		°C	
	Storage	- 55 to +125		°C	
Frequency Stability (AT-Cut Only)	Over Operating Temperature	Per Option		ppm	
Turning Point (Typical) (Doubly Rotated Cuts Only)		+55 to +105 (Mode, Cut, Frequency Dependent)		°C	
Equivalent Series Resistance (AT-Cut) (Max)	3.000000 to 25.000000 MHz	50			
	8.000000 to 50.000000 MHz		50		Ω
	50.000000 to 100.000000 MHz			90	
Equivalent Series Resistance (Doubly Rotated Cuts) (Max)	3.000000 to 25.000000 MHz	60			
	8.000000 to 50.000000 MHz		60		Ω
	50.000000 to 100.000000 MHz			110	
Drive Level (Typical)		100		uW	
Shunt Capacitance (Maximum)		7.0		pF	
Load Capacitance (Typical)		Per Option		pF	
Aging (Per Year Max)	AT-Cut	±1.0		ppm	
	Doubly Rotated Cuts	±0.5			
Seal Method		Cold Weld			
Insulation Resistance		500MΩ Minimum @100Vdc ±15V			

REV: NA	SIZE: A	CAGE: A	1 of 2

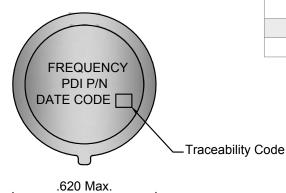


TS-Series 15.75D x 6.73H or 3.93H(mm)

PACKAGE DIMENSIONS

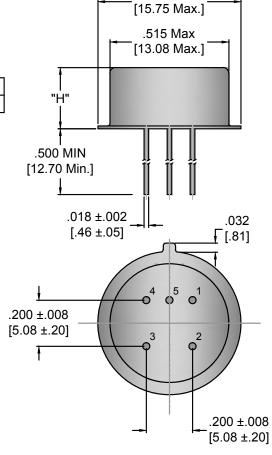
Decimal XXX = \pm .008, XX = \pm .02 Metric [XXX = \pm .20], [XX = \pm .50]

PIN	CONNECTION	
1	Crystal	
2	No Connect	
3	Crystal	
4	No Connect	
5	Ground	



"H" Dimension

Α	.155 [3.93]
В	.265 [6.73]









NOTES:

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.

Specifications subject to change without notice, last updated 4/1/13.

rev: NA	SIZE: A	CAGE: A	2 of 2
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