

TC-Series Specifications



10.40D x 6.73H (mm)

PDI TC-Series is a cold-welded hermetically sealed quartz crystal in a TO5 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.	
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*(X) for standard or assigned for custimization.

Doromoto	Mode				
Paramete	Fundamental	3rd Overtone	5th Overtone	Units	
Frequency Range		8.0000 to 40.0000	40.0000 to 120.0000	60.0000 to 200.0000	MHz
Frequency Tolerance	@ +25°C	Per Option			ppm
	Operating	Per Option			°C
Temperature Range	Storage	- 55 to +125			°C
Frequency Stability	Over Operating Temperature	Per Option		ppm	
	8.000000 to 10.000000 MHz	60			Ω
	10.000000 to 13.000000 MHz	50			
	13.000000 to 20.000000 MHz	30			
	20.000000 to 30.000000 MHz	20			
Fault alert Carias Desistance	25.000000 to 40.000000 MHz	25			
Equivalent Series Resistance	40.000000 to 60.000000 MHz		40		
(Maximum)	60.000000 to 80.000000 MHz		30		
	80.000000 to 120.000000 MHz		30		
	60.000000 to 100.000000 MHz			50	
	100.000000 to 150.000000 MHz			40	
	125.000000 to 200.000000 MHz			40	
Drive Level (Typical)		100		uW	
Shunt Capacitance (Maximum)		7.0		рF	
Load Capacitance (Typical)		Per Option		рF	
Aging (Maximum)	Per Year	±1.5		ppm	
Seal Method		Cold Weld			
Insulation Resistance		500MΩ Minimum @100Vdc ±15V			



Devenueter (Develu De	Mode				
Parameter (Doubly Ro	Fundamental	3rd Overtone	5th Overtone	Units	
Frequency Range		8.0000 to 40.0000	40.0000 to 120.0000	60.0000 to 200.0000	MHz
Frequency Tolerance	@ +25°C		Per Option		ppm
-	Operating	Per Option			°C
lemperature Range	Storage	- 55 to +125			°C
Turning Point (Typical)		+55 to +105 (Mode, Cut, Frequency Dependent)		°C	
	8.000000 to 10.000000 MHz	80			Ω
	10.000000 to 13.000000 MHz	60			
	13.000000 to 20.000000 MHz	50			
	20.000000 to 30.000000 MHz	40			
Fault alert Carias Desistance	25.000000 to 40.000000 MHz	40			
Equivalent Series Resistance	40.000000 to 60.000000 MHz		50		
(Maximum)	60.000000 to 80.000000 MHz		50		
	80.000000 to 120.000000 MHz		50		
	60.000000 to 100.000000 MHz			100	
	100.000000 to 150.000000 MHz			90	
	125.000000 to 200.000000 MHz			90	
Drive Level (Typical)		100		uW	
Shunt Capacitance (Maximum)		7.0		рF	
Load Capacitance (Typical)		Per Option		рF	
Aging (Maximum)	Per Year	±1.0			ppm
Seal Method		Cold Weld			
Insulation Resistance		500M	Ω Minimum @100Vd	c ±15V	





TC-Series 9.73D x 6.73H (mm)

PACKAGE DIMENSIONS

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

PIN	CONNECTION	
1	Crystal	
2	Ground	
3	Crystal	



NOTES: CERTIFIED SO-1400 COMPANY COMPLIANCE

(2) 0755-27872782

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.