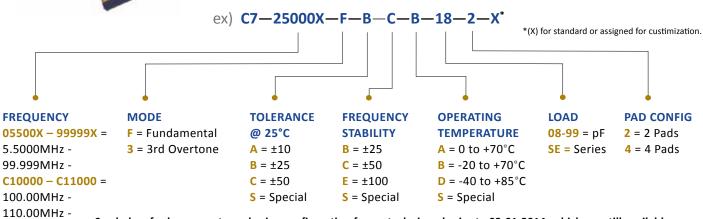
## **C7-Series Specifications**





## 7.00L x 5.00W x 1.30H (mm)

PDI *C7-Series* is a hermetically sealed quartz crystal in a seam-welded ceramic SMT 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.



See below for legacy part numbering configuration for parts designed prior to 02-01-2014, which are still available

Parameter		Mode		
		Fundamental	3rd Overtone	Units
Frequency Range <sup>*1</sup>		5.500000 to 60.000000	40.000000 to 110.000000	MHz
Frequency Tolerance	@ +25°C	Per Option		ppm
Temperature Range <sup>*1</sup>	Operating	Per Option		°C
	Storage	- 55 to +125		°C
Frequency Stability*1	Over Operating Temperature	Per Option		ppm
Equivalent Series Resistance (Maximum)	5.500000 to 8.000000 MHz	100	N/A	Ω
	8.000000 to 10.000000 MHz	60	N/A	
	10.000000 to 14.000000 MHz	50	N/A	
	14.000000 to 20.000000 MHz	40	N/A	
	20.000000 to 60.000000 MHz	30	N/A	
	40.000000 to 110.000000 MHz	N/A	80	
Drive Level (Typical)		100		uW
Shunt Capacitance (Maximum)		5.0		рF
Load Capacitance (Typical)		Per Option		рF
Aging (Maximum)	Per Year	±5.0		ppm
Seal Method		Seam Weld		
Insulation Resistance		500MΩ Minimum @100Vdc ±15V		
	*1 - Not all Frequency/Stability/Temp	erature combinations are av	ailable	

#### ex) C7-25000X-F-C-B-18-R-X\* **Legacy Part Numbering Configuration FREQUENCY** MODE FREQUENCY **OPERATING** LOAD PACKAGE R = Tape & Reel 06000X - 99999X =F = Fundamental **STABILITY TEMPERATURE** 08-99 = pF6.0000MHz -3 = 3rd Overtone $B = \pm 25$ $A = 0 \text{ to } +70^{\circ}\text{C}$ SE = Series 99.999MHz - $C = \pm 50$ $B = -20 \text{ to } +70^{\circ}\text{C}$ C10000 - C12500 = $D = -40 \text{ to } +85^{\circ}\text{C}$ $D = \pm 100$ 100.00MHz -S = Special S = Special 125.00MHz -

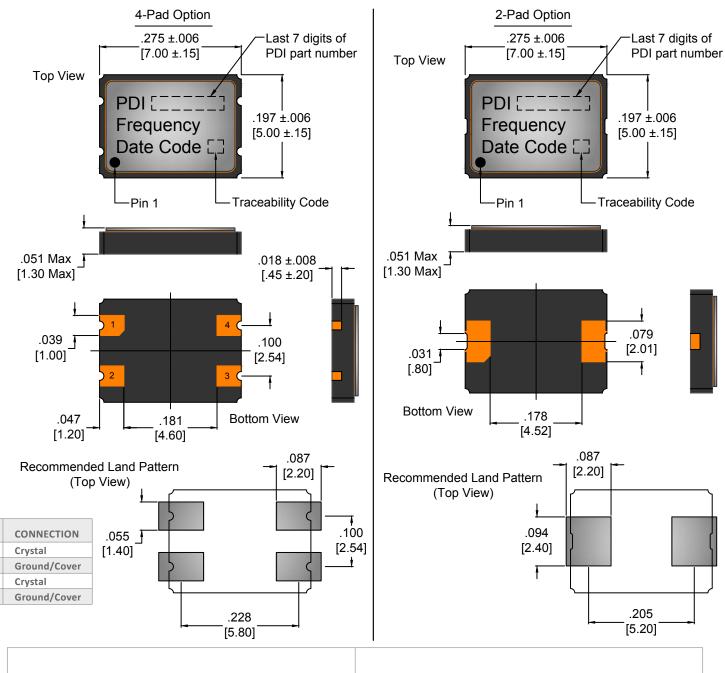
REV: NA SIZE: A CAGE: A 1 of 3



## C7-Series 7.00 x 5.00 x 1.30 (mm)

### PACKAGE DIMENSIONS

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





PIN

1

2





#### 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.

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

REV: NA SIZE: A CAGE: A 2 of 3



# C7-Series 7.00 x 5.00 x 1.30 (mm)

- 1. Material: Black Conductive Polystyrene or equivalent.
- 2. 10 Sprocket Hole pitch cumulative tolerance of  $\pm .008$
- 3. Camber in compliance with EIA 481
- 4. Empty pockets: Trailing end (Minimum) 200 mm. and Leading end (Minimum) 400 mm.
- 5. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

