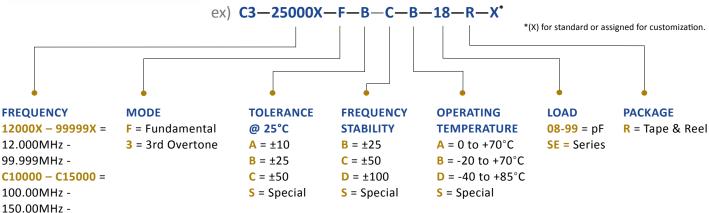
### C3-Series Specifications





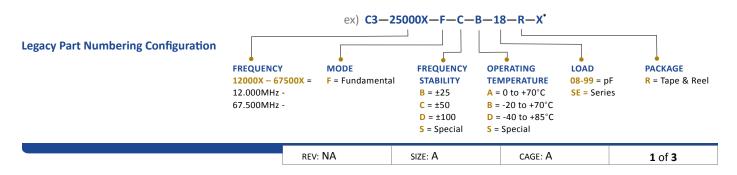
### 3.20L x 2.50W x 0.80H (mm)

PDI *C3-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*1		12.000000 to 60.000000	60.000000 to 150.000000	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)	12.000000 to 16.000000 MHz	100	N/A	Ω
	16.000000 to 20.000000 MHz	80	N/A	
	20.000000 to 24.000000 MHz	60	N/A	
	24.000000 to 60.000000 MHz	40	N/A	
	60.000000 to 150.000000 MHz	N/A	100	
Drive Level (Typical)		10		uW
Shunt Capacitance (Maximum)		5.0		pF
Load Capacitance (Typical)		Per Option		pF
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 ava	ailable.	



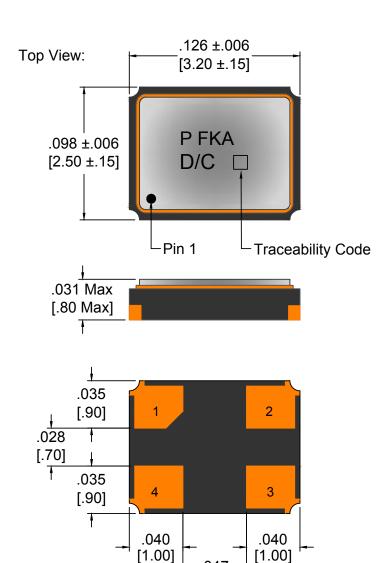


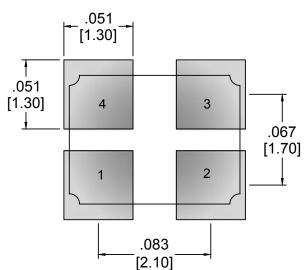
## C3-Series 3.20 x 2.50 x 0.80 (mm)

#### PACKAGE DIMENSIONS

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

PIN	CONNECTION	
1	Crystal	
2	Ground/Cover	
3	Crystal	
4	Ground/Cover	





Recommended Land Pattern (Top View)



**Bottom View:** 



.047

[1.20]



#### 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	<b>2</b> of <b>3</b>
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# C3-Series 3.20 x 2.50 x 0.80 (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.

