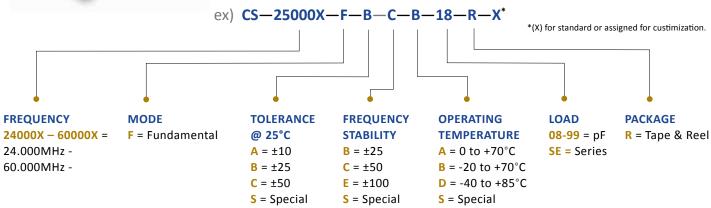
### **CS-Series Specifications**





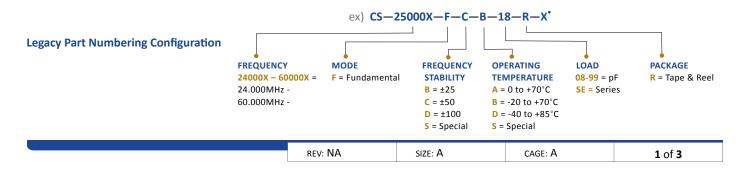
### 2.00L x 1.60W x 0.60H (mm)

PDI *CS-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	Units
Frequency Range*1		24.000000 to 60.000000	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)	24.000000 to 26.000000 MHz	80	Ω
	26.000000 to 40.000000 MHz	60	
	40.000000 to 60.000000 MHz	50	
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 available.	



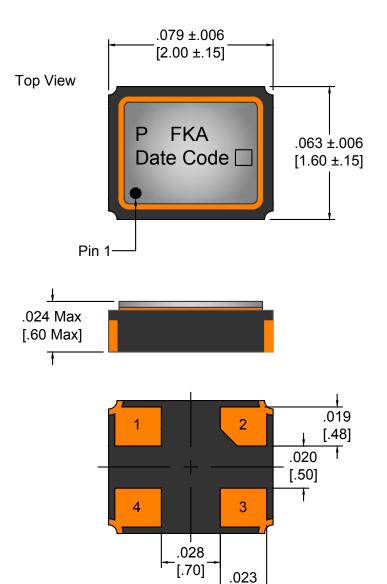


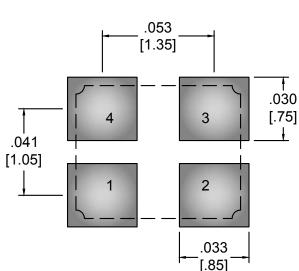
# CS-Series 2.00 x 1.60 x 0.60 (mm)

#### 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	





Reccomended Land Pattern (Top View)



**Bottom View** 





[.58]

#### 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



# CS-Series 2.00 x 1.60 x 0.60 (mm)

- 1. Material: Black Conductive Polystyrene or equivalent.
- 2. 10 Sprocket Hole pitch cumulative tolerance of ±.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.

