C2-Series Specifications

3.20L x 1.50W x 0.90H (mm)

PDI *C2-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.

ex) **C2—00032X—F—B—X—B—12—R—X***

*(X) for standard or assigned for custimization.

FREQUENCY
00032X – 00040X =
32.000KHz -
40.000KHz -

MODE
F = Fundamental

TOLERANCE @ 25°C
A = ±10
B = ±25
C = ±50
S = Special

FREQUENCY STABILITY
X = **

** - See Table.

OPERATING TEMPERATURE
A = 0 to +70°C
B = -20 to +70°C
D = -40 to +85°C
S = Special

LOAD
08-99 = pF
SE = Series

PACKAGE
R = Tape & Reel

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		32.000000 to 40.000000	KHz
Frequency Tolerance	@ +25°C	Per Option	ppm
Temperature Range	Operating	Per Option	°C
	Storage	- 55 to +125	°C
Frequency Stability	Temperature Coefficient	-0.034 ±0.006ppm/ °C^2	
Turnover Temperature (Typical)		25	°C
Equivalent Series Resistance (Maximum)		70K	Ω
Drive Level (Typical)		0.5	uW
Shunt Capacitance (Maximum)		3.0	pF
Load Capacitance (Typical)		Per Option	pF
Aging (Maximum)	Per Year	±5.0	ppm
Seal Method		Seam Weld	
Insulation Resistance		500MΩ Minimum @100Vdc ±15V	

Legacy Part Numbering Configuration

ex) **C2—00032X—F—C—B—08—R—X***

FREQUENCY
00032X – 00040X =
32.000KHz -
40.000KHz -

MODE
F = Fundamental

FREQUENCY STABILITY
B = ±25
C = ±50
D = ±100
S = Special

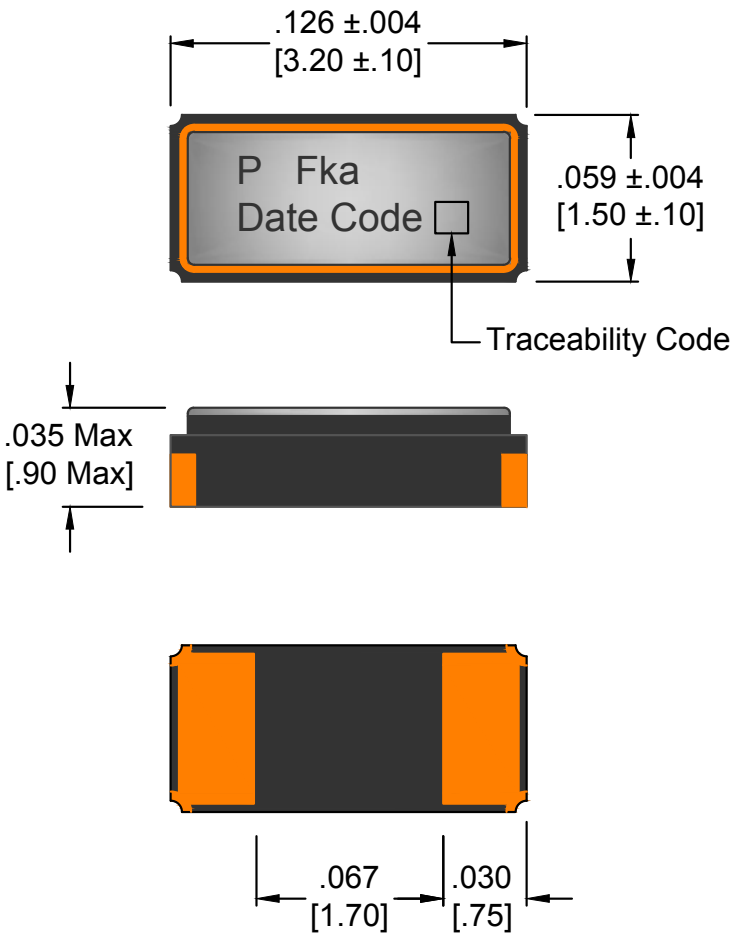
OPERATING TEMPERATURE
A = 0 to +70°C
B = -20 to +70°C
D = -40 to +85°C
S = Special

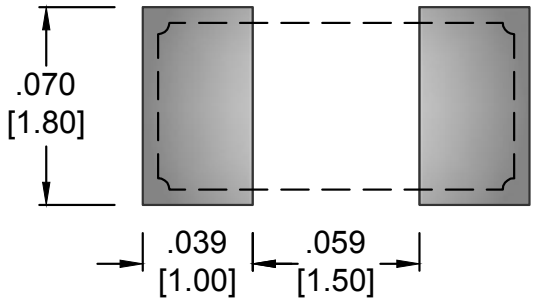
LOAD
08-99 = pF
SE = Series

PACKAGE
R = Tape & Reel

PACKAGE DIMENSIONS

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





Recommended Pad Layout
(Top View)

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.

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.