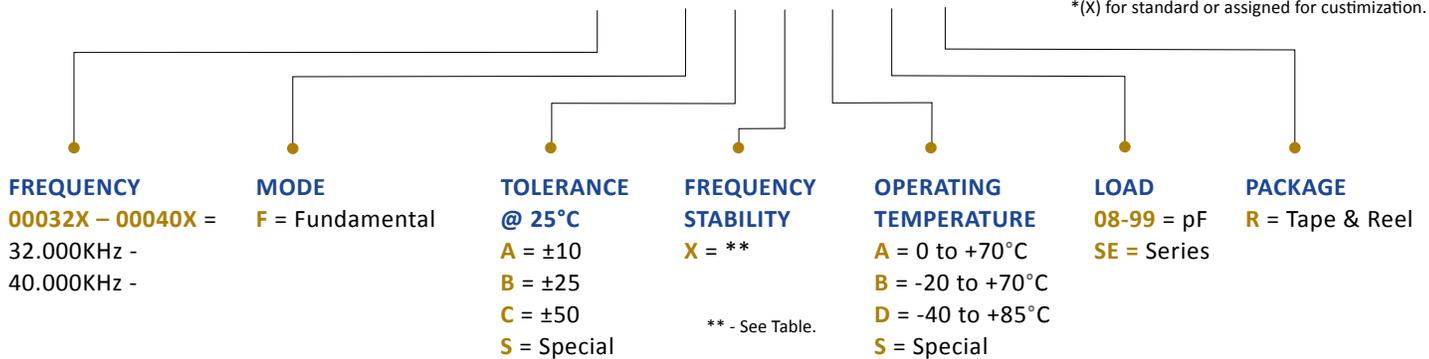## 3.20L x 1.50W x 0.90H (mm)

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.

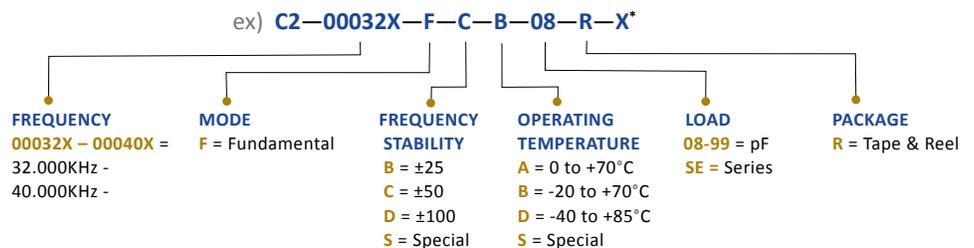ex) **C2—00032X—F—B—X—B—12—R—X***

*(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	Units
		Fundamental	
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]

.126 ±.004
[3.20 ±.10]

P   Fka
Date Code

.059 ±.004
[1.50 ±.10]

Traceability Code

.035 Max
[.90 Max]

.067
[1.70]

.030
[.75]

.070
[1.80]

.039
[1.00]

.059
[1.50]
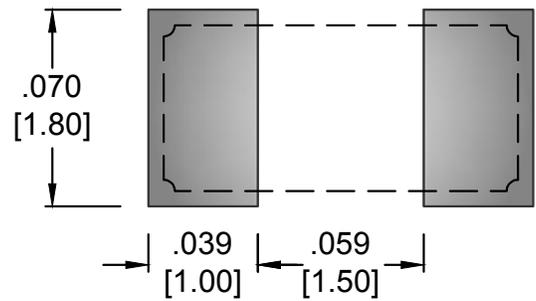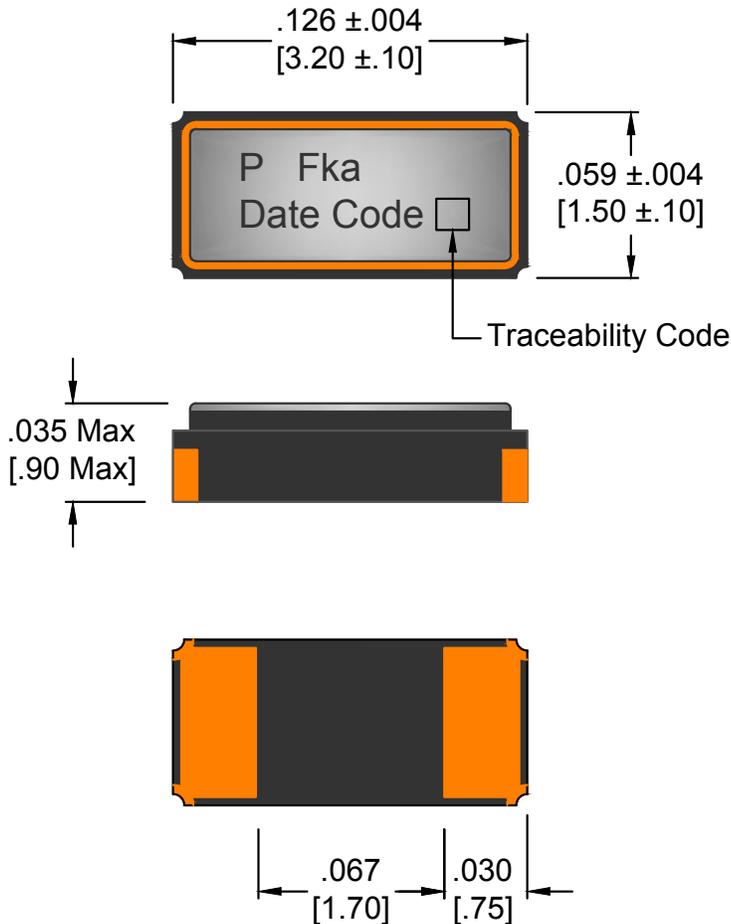
Recommended Pad Layout
(Top View)

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.

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C2-Series 3.20 x 1.50 x 0.90 (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.

Section A-A

.012±.002
[0.30±.05]

Ø.059
[Ø1.50]

.079
[2.00]

.157 Typ.
[4.00 Typ.]

.157 Typ.
[4.00 Typ.]

A

.069
[1.75]

.207
[5.25]

.315 ±.012
[8.00 ±.30]

.319
[8.10]

Ø7.09
[Ø180.00]

3.15
[80.00]

120°

10 seconds Maximum
at 260°C±5°C

260°C

225°C

180°C

160°C

25°C

35±5 seconds
Reflow

90±30 seconds
Pre-Heat

75±15 seconds
Reflow

400 seconds Maximum
from +25°C to 260°C