

C5-Series Specifications



5.00L x 3.20W x 0.80H (mm)

PDI C5-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) **C5-25000X-F-C-D-08-R-X***

FREQUENCY

10000X – 99999X =
10.000MHz – 99.999MHz
C10000 – C27000 =
100.000MHz – 270.000MHz

MODE

F = Fundamental
3 = 3rd Overtone
5 = 5th Overtone

TOTAL TOLERANCE

B = +/-25
(Temp A & B)
C = +/-50
D = +/-100
S = Special

OPERATING TEMPERATURE

A = 0 to +70°C
B = -20 to +70°C
D = -40 to +85°C
E = -55 to +125°C
S = Special

LOAD

08-99 = pF
SE = Series

PACKAGE

R = Tape & Reel

*(X) for standard or assigned for customization.

Frequency Range – MHz	Operating Mode	(CL)-Load Capacitance	ESR Ω (Max)	(C0)-Shunt Capacitance pF (Max)	Drive Level uW (Typ)	Insulation Resistance
10.000000 to 11.999999	Fundamental	8.0 pF to Series	120	7.0	100.0	500 MΩ Minimum at 100 Vd
12.000000 to 19.999999			80			
20.000000 to 29.999999			70			
30.000000 to 47.999999			50			
48.000000 to 70.000000			40			
50.000000 to 180.000000	3rd Overtone		100			
170.000000 to 270.000000	5th Overtone		160			
Parameter	Conditions	Min	Typ	Max	Unit	
Storage Temperature		-55		+125	°C	
Aging	Per Year (±3.0 ppm Option)	-5.0		+5.0	ppm	



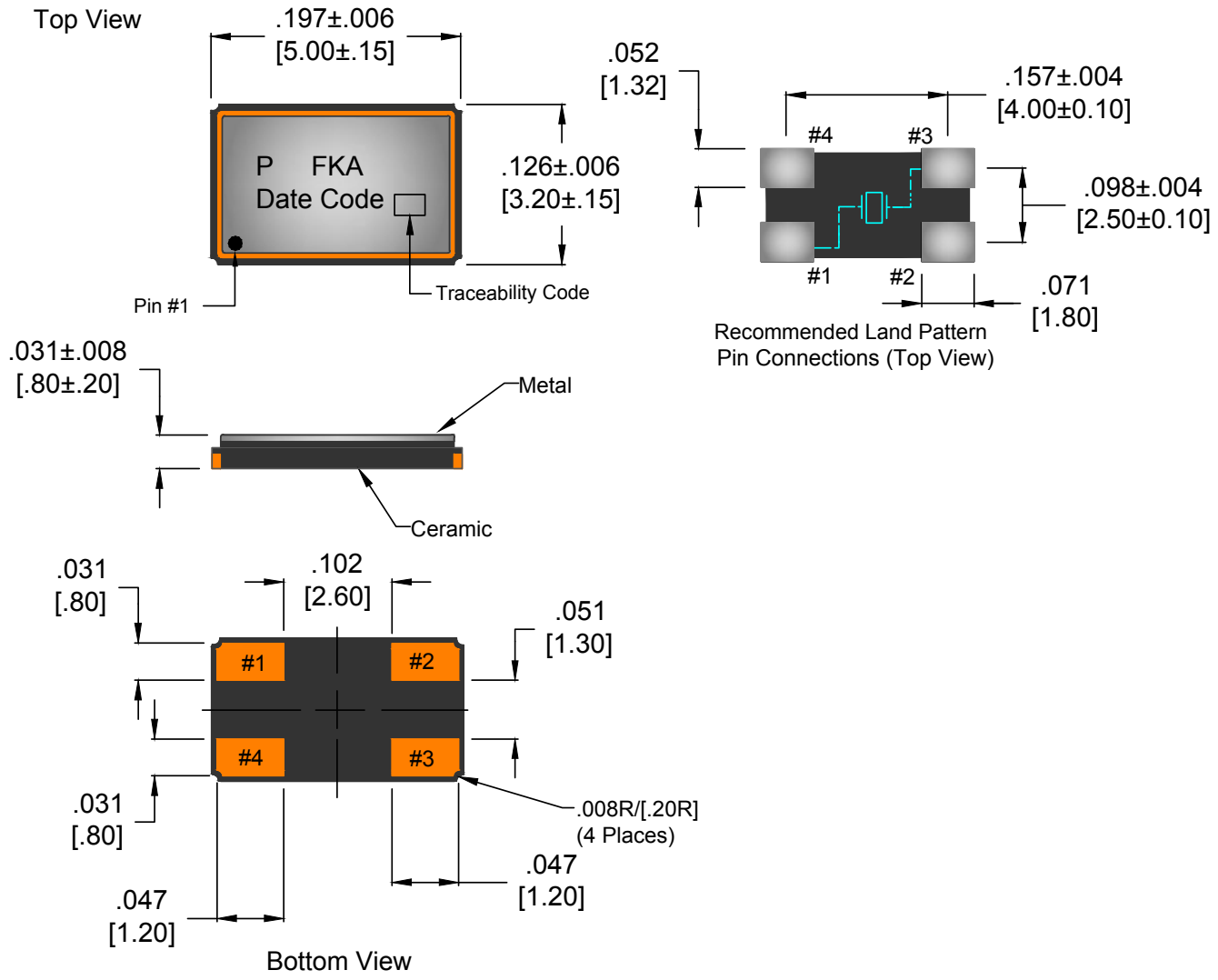
NOTES:

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.
Not all Frequency/Temperature combinations are available.
Specifications subject to change without notice, last updated 4/1/13.

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



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1. Material: Black Conductive Polystyrene or equivalent.
2. 10 Sprocket Hole pitch cumulative tolerance of ± 0.008
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.

