



PRECISION DEVICES INC.

Frequency Control Solutions

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LABORATORY SUITABILITY
CERTIFIED



MIL-STD-790 PRODUCT
ASSURANCE CERTIFIED



MIL-PRF-38534 HYBRID
MICROCIRCUIT CERTIFIED



ISO 9001 FM 75597



REV	DATE	PAGE	DESCRIPTION	AUTH	ECN	Originator	Date	Engineering	Date
						RD	4-2013	BA	4-2013
						TITLE: Ceramic Crystal Oscillator			FKA: 5354
						PART #: OC7E16000XCCEXX			DWN: RD
						DATE: 4-23-13		SCALE: NTS	ECN: NA
A	4-2013	All	Original Release	RD	NA	REV: A	SIZE: A	CAGE: 0S4G1	1 of 4



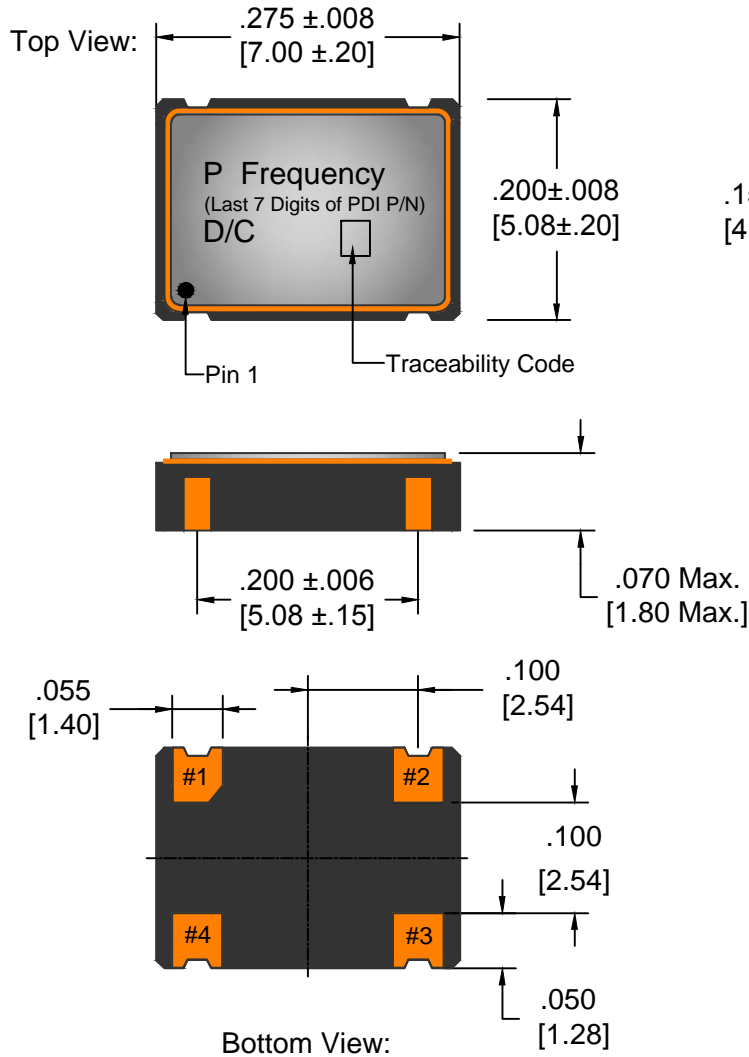
Electrical Requirements

PARAMETER	SYMBOL	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNIT
Frequency Nominal	Fo			16.000000		MHz
Frequency Tolerance	$\Delta F/F$	@ +25°C ± 3°C	-25		-25	ppm
Frequency Stability			-50		-50	ppm
Operating Temperature			-55		+125	°C
Storage Temperature			-55		+125	°C
Duty Cycle		@ 50% Vcc	40	50	60	%
Rise Times	TR	From 10% to 90% Vcc, CL		4.0	6.0	nS
Fall Times	TF	From 90% to 10% Vcc, CL		4.0	6.0	nS
Output		TTL/CMOS				
Supply Voltage	Vcc		3.135	3.30	3.465	V
Supply Current	Icc	+25°C			25	mA
Load	CL				15.0	pF
Start-up Time	Tstup				10.0	mS
Low Level Output Voltage	Vol				10	% Vcc
High Level Output Voltage	Voh		90			% Vcc
Enable Tristate Function	Vih	Pin 1 Logic '1', Output Enabled	80			% Vcc
Disable Tristate Function	Vil	Pin 1 Logic '0', Output Disabled			20	% Vcc
Output Disable Time	Tdis	Pin 1 Logic '1'			150.0	nS
Period Jitter RMS/1Sigma					5.0	pS
Phased Jitter RMS		12 kHz to 20 MHz			1.0	pS
Perturbations			-3		+3	ppm/1°C
Aging		Per Year	-3.0		+3.0	ppm

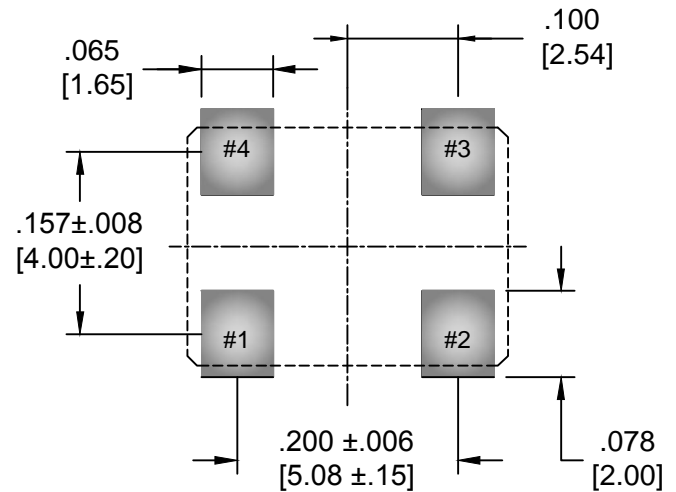
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Package & Dimensions: DECIMAL XXX = ± .008, XX = ± .020 METRIC [XXX = ± .20] [XX = ± .50]



Recommended Land Pattern

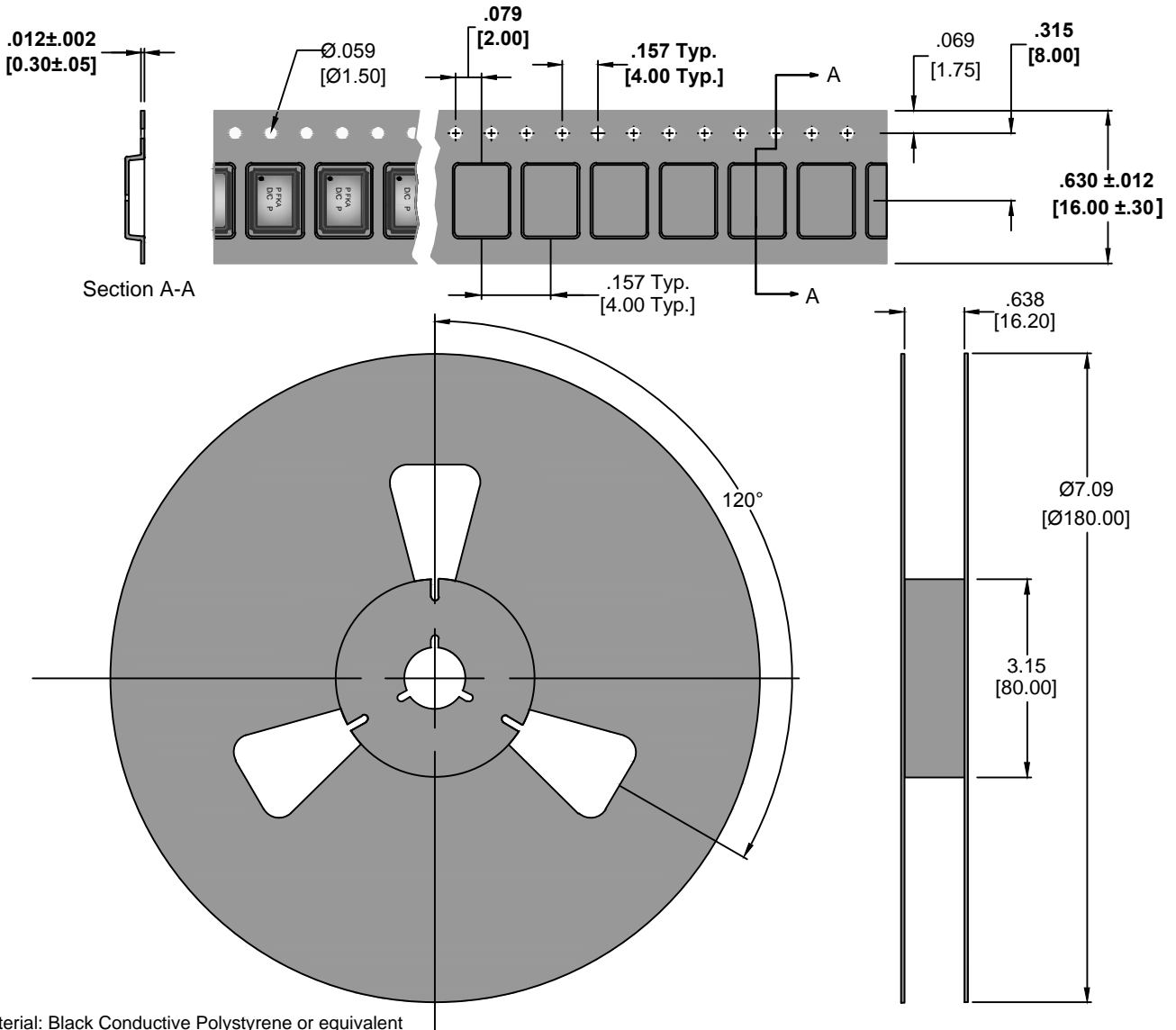


PIN	Connection
1	Enable/Disable
2	Ground
3	Output
4	Vcc

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Tape & Reel Assembly



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. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

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