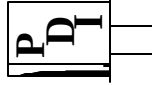
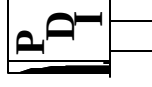


Precision Devices, Inc.



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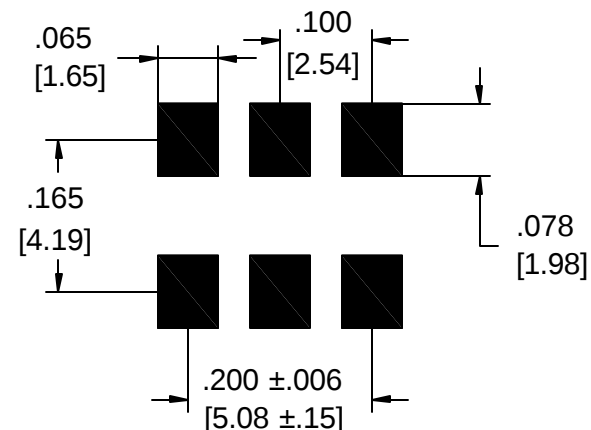
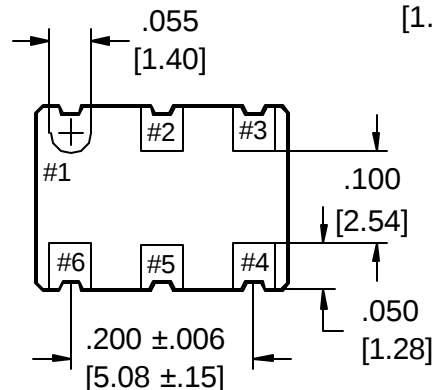
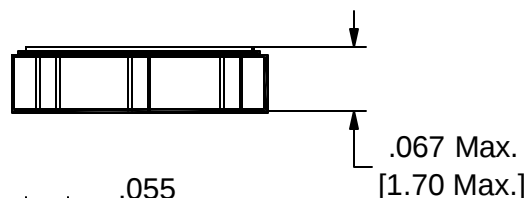
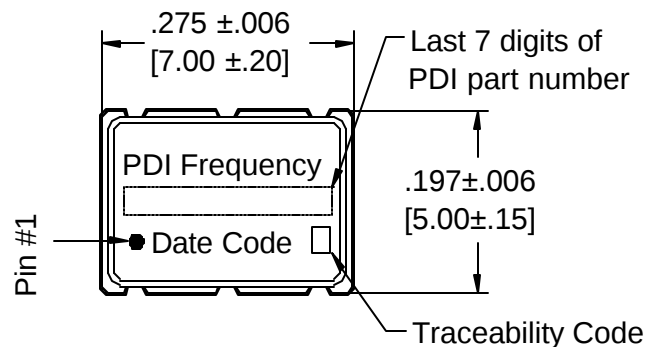
Sales Information sales@pdixtal.com

Electrical Specifications

- Center Frequency: 178.500000 MHz
- Output: LVPECL
- Frequency Tolerance: See Line 5
- Operating Temperature Range: 0°C to +70°C
- Frequency Stability: $\pm 100\text{ppm}$ (Inclusive of tolerance, supply voltage change, reflow drift and 10 years aging)
- Storage Temperature Range: -55°C to +125°C
- Duty Cycle: 45/55% Maximum
- Rise / Fall Times: 0.5nS Typical, 1nS Maximum
- Supply Current: 60mA Typical, 90mA Maximum
- Input Voltage: VIL: 0.3Vcc Maximum
VIH: 0.7Vcc Minimum
- Output Voltage: VOL: 1.68Vdc Maximum
VOH: 2.275Vdc Maximum
- Output Load: 50 Ohms Maximum
- Start-up Time: 2mS Maximum
- Supply Voltage: +3.3Vdc $\pm 5\%$
- Period Jitter: 3pS Typical, 5pS Maximum (RMS)
- Phase Jitter (12KHz to 20MHz): 0.5pS Typical, 1.0pS Maximum (RMS)
- Enable Time: 2mS Maximum
- Disable Time: 200nS Maximum
- Standby Current: 30uA Maximum
- Phase Noise: 10Hz Offset
100Hz Offset
1KHz Offset
10KHz Offset
100KHz Offset
-60dbc/Hz Typical
-90dbc/Hz Typical
-125dbc/Hz Typical
-140dbc/Hz Typical
-145dbc/Hz Typical

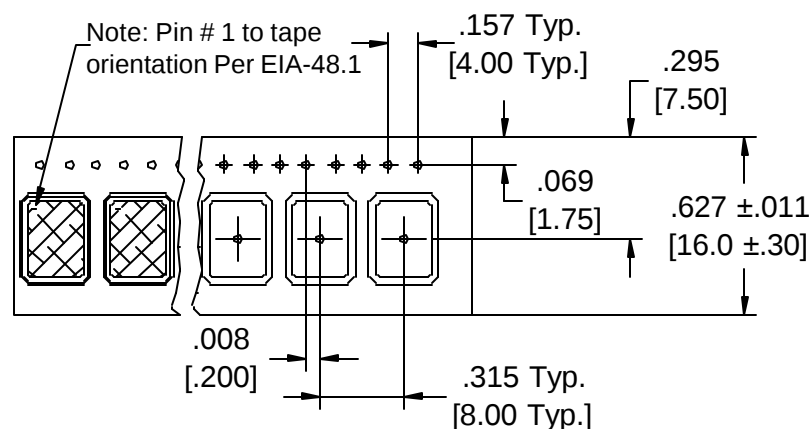
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REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN	Originator	Date	Engineering	Date
						J.L.	8/24/09	C.H.	8/24/09
						TITLE Crystal Oscillator Assembly		FKA	65024R
						PART NUMBER	PE07C17850MDARX		
						DATE	SCALE	ECN.	REV.
						8/24/09	N.T.S.	E0880	B
B	8/09	2	Updated Mechanical drawing (Height changed from 1.20mm to 1.70 Max.)	J.L.	E0880	SIZE A	CAGE 0S4G1	Page 1 of 2	



Recommended Land Pattern

PIN	CONNECTION
1	Output/Enable
2	No Connect
3	Ground
4	Output 1
5	Output 2
6	Vcc



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Manufacturer of Quartz Crystal Products

DECIMAL	DWG FILE	PART NUMBER	
XX=±.020 XXX=±.008	65024R	PE07C17850MDARX	
METRIC	SCALE	FREQUENCY	DRAWN BY
XX=±.50 XXX=±.20	N.T.S.	178.500000 MHz	J.Lawinger
ANGULAR	DRAWING TYPE	DATE	
XX=±2°	Crystal Oscillator Assembly	8/24/09	
	REV. LEVEL	ECN NO.	CAGE CODE
	B	E0880	0S4G1