Crystal Clock Oscillator 25.0 MHz

Datacom Fixed Frequency Oscillator
Low Jitter
Low Phase Noise
No PLL

LVDS Output
Application Specific

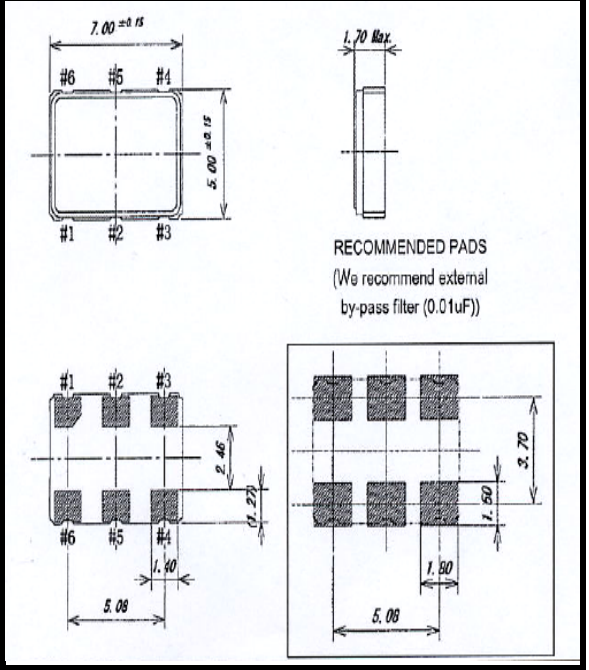
Part Numbering Example: COL 7 R - A5 BP - 40 25.0 TS

COL	7	R	A5	BP	40	25.0	TS
SERIES	PACKAGE STYLE	VOLTAGE	OPERATING TEMP	STABILITY	SYMMETRY	FREQ.	TRISTATE
COL	7 = 5 x 7 Ceramic	R = 2.5 V	A5 = -20 to +70 C	BP = 50 ppm	40/60	Fixed	TS = Tri State

Specifications:

Package Size:	7.0mm x 5.0mm
Frequency:	25.000MHz
Supply Voltage:	2.5Vdc ± 5%
Frequency Stability:	± 50ppm (incl. tolerance, temperature, voltage & load change, shock & vibration, 1yr ageing)
Operating Temperature:	0 to +70°C
Storage Temperature:	-40°C to +85°C
Current Consumption:	40mA max.
Symmetry:	40/60%
Rise & Fall Time:	0.7ns max.
Output Load:	100 Ohms
Output Differential Voltage:	V_{DD} = 247mV min. 454mV max.
Output Offset Voltage:	Vos = 1.125V min. 1.375V max.
Tristate:	pin #1 Open Active; ≥0.7 Vcc Active; ≤0.3Vcc High Z
Active High E/D function on Jitter (RMS)	pin #1 3ps max
	Complimentary Output

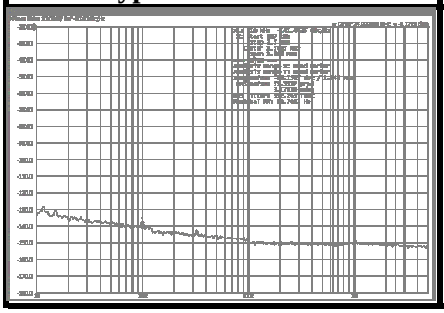
COL



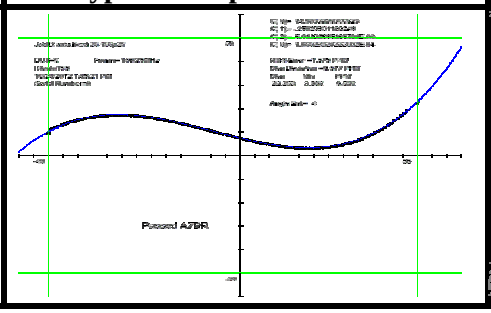
Pin Connections

pin #1	E/D
pin #2	N/C
pin #3	GND
pin #4	OUT
pin #5	OUTN
pin #6	Vcc

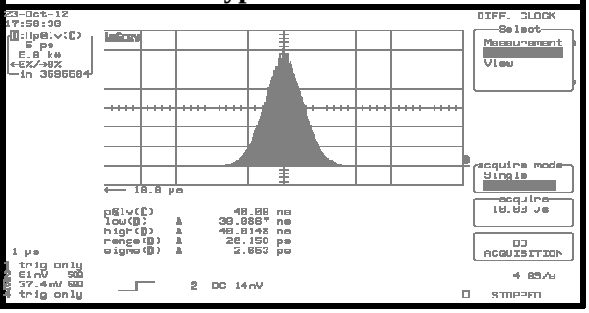
Typical Phase Noise



Typical Temperature Curve



Typical Jitter



CARDINAL COMPONENTS, INC.
145 Rt. 46 West
Wayne, NJ 07470

Tel: (973)785-1333
E-Mail: sales@cardinalxtal.com
WEB: www.cardinalxtal.com