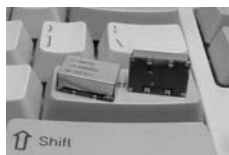


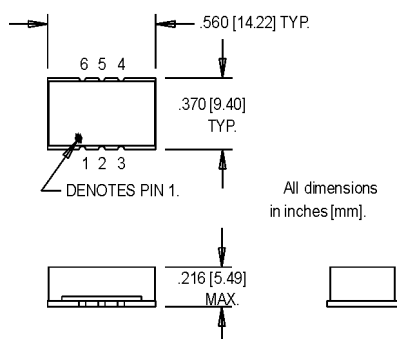
F2139BA Series

9x14 mm FR-4, 3.3 Volt, PECL, Clock Oscillator

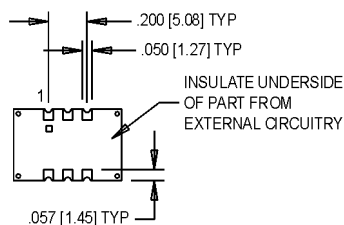
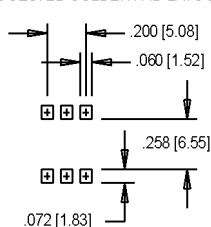


Ordering Information

	F2139BA	X	X	X	-R	00.0000 MHz
Package						
Stability						
Blank:	±20 ppm (0°C to +70°C only)					
B:	±50 ppm					
Temperature Range						
Blank:	0°C to +70°C					
M:	-40°C to +85°C					
Enable/Disable Function						
Blank:	N/C on Pin 1					
E:	Enable/Disable on Pin 1					
RoHS Compliance						
Blank:	non-RoHS compliant part					
-R:	RoHS compliant part					
Frequency (customer specified)						



SUGGESTED SOLDER PAD LAYOUT



Electrical Specifications	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
	Frequency Range	F	70		200	MHz	
	Operating Temperature	T _A	(See Ordering Information)				
	Storage Temperature	T _s	-40		+85	°C	
	Frequency Stability	ΔF/F	(See Ordering Information)				
	Aging						
	1st Year			±2		ppm	
	Thereafter (per year)			±1		ppm	
	Input Voltage	V _{cc}	3.135	3.3	3.465	V	
	Input Current	I _{cc}			70	mA	
	Output Type						PECL
	Load		50 Ω to (V _{cc} - 2V) or Thevenin equivalent				
	Symmetry (Duty Cycle)		45		55	%	(V _{cc} - 1.3) ref. level
	Output Skew				100	ps	50%
	Logic "1" Level	V _{oh}	V _{cc} -1.02		V _{cc} - 0.72	V	50Ω into (V _{cc} - 2) load
	Logic "0" Level	V _{ol}	V _{cc} -1.95		V _{cc} -1.60	V	50Ω into (V _{cc} - 2) load
	Rise Time	T _r			450	ps	20% to 80%
	Fall Time	T _f			450	ps	80% to 20%
	Enable Function		PECL low: output active PECL high: output disables				
	Start up Time				10	ms	
	Random Jitter	R _j		5	12	ps RMS	1-Sigma

1. Inclusive of calibration, temperature, voltage, load and 10 years aging.

Pin Connections

PIN	FUNCTION
1	N/C or E/D
2	N/C
3	Vss/Ground
4	Output Q
5	Output \bar{Q}
6	+Vcc

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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.