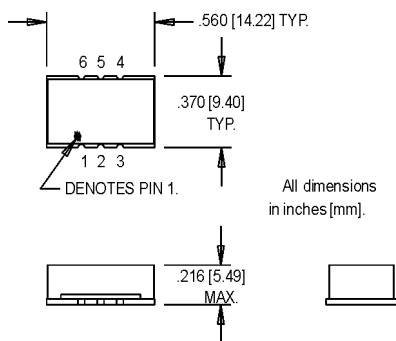


F2139BA Series

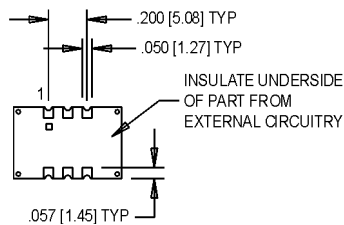
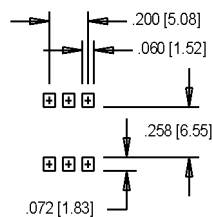
9x14 mm FR-4, 3.3 Volt, PECL, Clock Oscillator



- Former **Champion** TECHNOLOGIES, INC. Product
- Clock Recovery, Optic Transmission Equipment, Digital Cross Connect Equipment



SUGGESTED SOLDER PAD LAYOUT



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

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)							

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)					See Note 1
	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.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

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