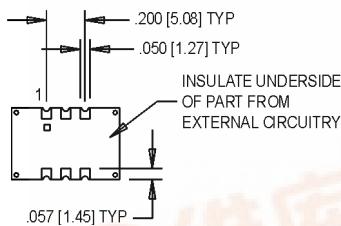
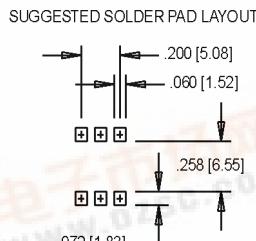
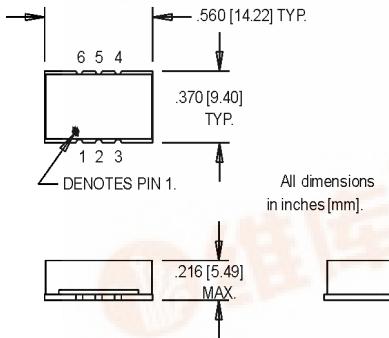


F2139BA Series

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



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



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

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.