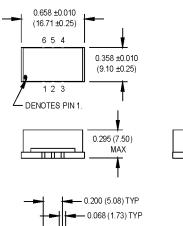
M5001 Series 9x16 mm FR-4, 3.3 Volt, CMOS/TTL/PECL/LVDS, HPXO

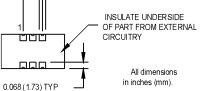




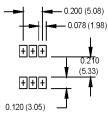


 Ideal for applications requiring long term (20 year) all-inclusive stability



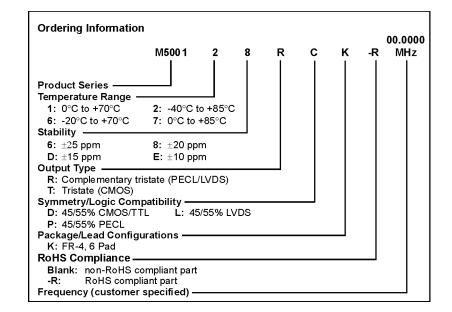


SUGGESTED SOLDER PAD LAYOUT



Pin Connections

PIN	FUNCTION		
1	N/C		
2	Tristate		
3	Ground		
4	Output 1		
5	Output 2		
6	+Vcc/Vdd		



PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Frequency Range	F	1		160	MHz	CMOS/TTL
		19.44		800	MHz	PECL/LVDS
Operating Temperature	TA	(See Order	ing Inform	nation)		
Storage Temperature	Ts	-55		+105	°C	
Frequency Stability	∆ F/F	(See Ordering Information)				See Note 1
Aging						
1st Year				1.5	ppm	
Thereafter (per year)				0.5	ppm	
Input Voltage	Vcc/Vdd	3.15	3.3	3.45	V	
Input Current	lcc/ldd	5		50	mA	CMOS/TTL
		50		120	mA	PECL
		5		75	mA	LVDS
Output Type						CMOS/TTL/PECL/LVDS
Load		2 TTL or 15 pF Max. 50 Ohms to Vcc -2 Volts 100 Ohm differential load				CMOS/TTL PECL LVDS
Symmetry (Duty Cycle)		(See Order	ing Inform	nation)		
Output Skew				50	ps	PECL
Differential Voltage		250	375	500	mV	LVDS
Logic "1" Level	Voh	2.5			V	CMOS/TTL
		2.2		2.4	v	PECL
		1.375			v	LVDS
Logic "0" Level	Vol			0.5	V	CMOS/TTL
		1.4		1.7	V	PECL
				1.125	v	LVDS
Rise/Fall Time	Tr/Tf	2.0		10	ns	CMOS/TTL
		0.25		3.0	ns	PECL/LVDS
Tristate Function		Input Logic "1": output active				Opposite tristate logic
		Input Logic "0": output disables				Available upon request
Start up Time		10			ms	
Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
@ 19.44 MHz	-60	-90	-120	-135	-148	dBc/Hz
@ 155.52 MHz	-60	-90	-110	-120	-120	dBc/Hz
@ 622.08 MHz	-60	-90	-100	-105	-105	dBc/Hz

1. Stability includes initial tolerance, deviation over temperature, supply and load variation, and aging for 20 years @ 25°C.

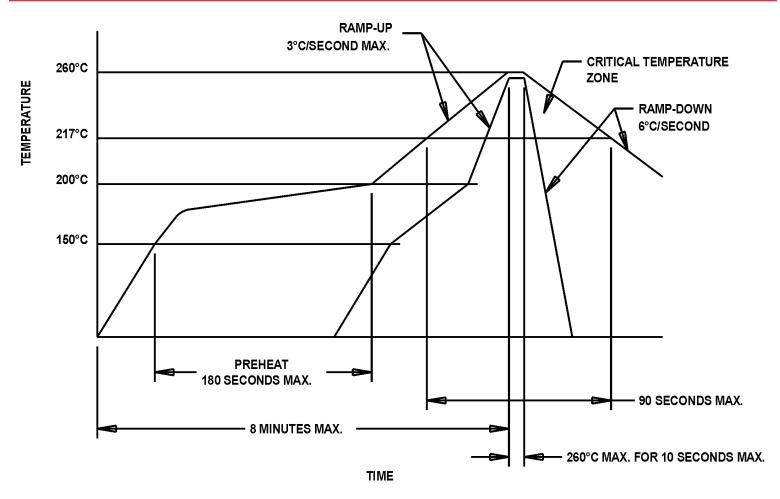
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Electrical Specifications

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

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MtronPTI Lead Free Solder Profile



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