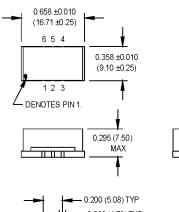
M5001 Series 9x16 mm FR-4, 3.3 Volt, CMOS/TTL/PECL/LVDS, HPXO

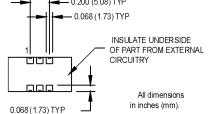




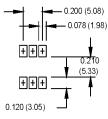


 Ideal for applications requiring long term (20 year) all-inclusive stability



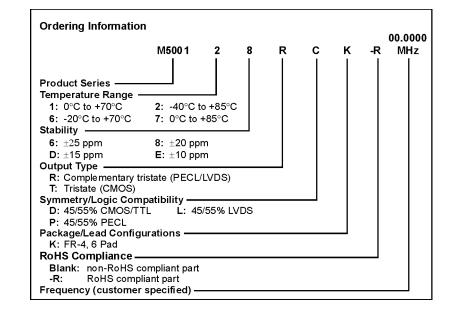


SUGGESTED SOLDER PAD LAYOUT



Pin Connections

PIN	FUNCTION N/C Tristate		
1			
2			
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 Ordering Information)				
	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
í	Symmetry (Duty Cycle)		(See Order	(See Ordering Information)			
	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.

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.

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.