M5002 Series

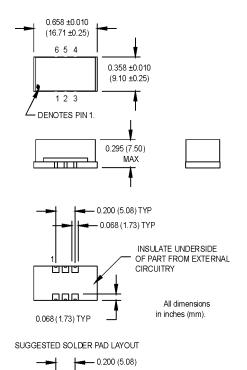
9x16 mm FR-4, 5.0 Volt, CMOS/TTL/PECL/LVDS, HPXO







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

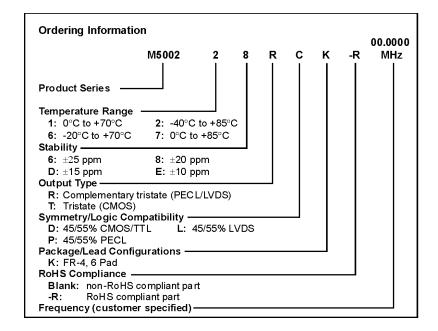


(5.33)

Pin Connections

0.120 (3.05)

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



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	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	10 30			MHz	CMOS/TTL/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	4.75	5.0	5.25	٧	
	Input Current	lcc/ldd	2		25	mA	CMOS/TTL
ر ا د			50		75	mA	PECL
ö			5		35	mA	LVDS
cat	Output Type						CMOS/TTL/PECL/LVDS
Electrical Specifications	Load		2 TTL or 15 pF Max. 50 Ohms to Vcc -2 Volts 100 Ohm differential load				CMOS/TTL PECL LVDS
ical	Symmetry (Duty Cycle)	etry (Duty Cycle) (See Ordering I			nation)		
ctr	Output Skew				50	ps	PECL
Ĕ	Differential Voltage		250	375	500	mV	LVDS
	Logic "1" Level	Voh	4.5			٧	CMOS/TTL
			3.9		4.1	٧	PECL
			1.375			٧	LVDS
	Logic "0" Level	Vol			0.5	٧	CMOS/TTL
			3.1		3.4	V	PECL
					1.125	٧	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

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.



MtronPTI Lead Free Solder Profile

