M5002 Series

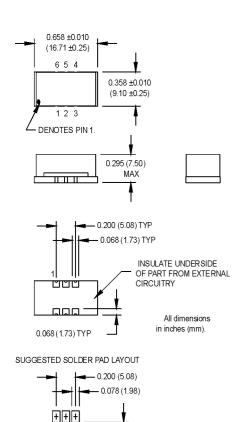
9x16 mm FR-4, 5.0 Volt, CMOS/TTL/PECL/LVDS, HPXO





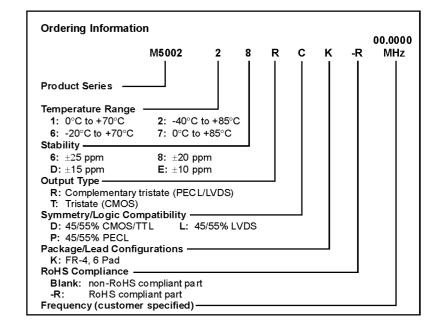


 Ideal for applications requiring long term (20 year) all-inclusive stability



Pin Connections

FUNCTION			
N/C			
Tristate			
Gro und			
Output 1			
Output 2			
+Vcc/Vdd			



	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	10	тур.	30	MHz	CMOS/TTL/PECL/LVDS
	Operating Temperature	TA	(See Ordering Information)			IVII IZ	CIVIOS/TTE/FECE/EVDS
		Ts	· · · · · · · · · · · · · · · · · · ·			∘c	
	Storage Temperature		-55		+105	, o	
	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	V	
	Input Current	lcc/ldd	2		25	mA	CMOS/TTL
s			50		75	mA	PECL
ö			5		35	mA	LVDS
Electrical Specifications	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 Ordering Information)				
	Output Skew				50	ps	PECL
	Differential Voltage		250	375	500	mV	LVDS
	Logic "1" Level	Voh	4.5			٧	CMOS/TTL
			3.9		4.1	V	PECL
			1.375			V	LVDS
	Logic "0" Level	Vol			0.5	٧	CMOS/TTL
			3.1		3.4	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

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

