M5004 Series

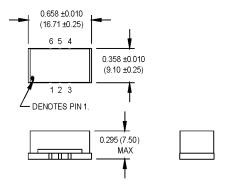
9x16 mm FR-4, 5.0 Volt, CMOS/TTL/PECL/LVDS, HPVCXO

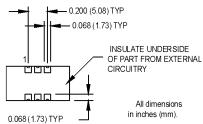


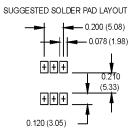




 Ideal for applications requiring long term (20 year) all-inclusive stability

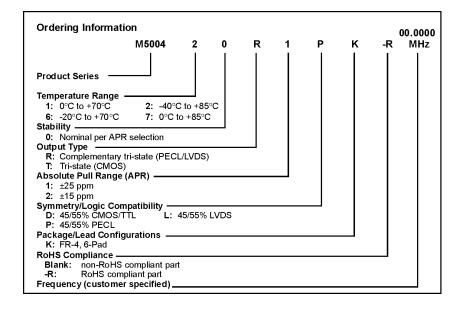






Pin Connections

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



	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	
	Pullability/APR		(See Ordering Information)				Over Control Voltage
	Control Voltage	Vc	0.5	2.5	4.5	V	
	Tuning Range				15	ppm/V	
	Modulation Bandwidth	fm	10			kHz	
	Input Impedance	Zin	50K			Ohms	
Suo.	Input Voltage	Vcc/Vdd	4.75	5.0	5.25	V	
ati	Input Current	lcc/ldd	2		25	mA	CMOS/TTL
pecific			50		75	mA	PECL
			5		35	mA	LVDS
S	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 (See Ordering Information)				CMOS/TTL PECL LVDS
" '	Symmetry (Duty Cycle)						
	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	V	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 Input Logic "0": output disables				Opposite tristate logic Available upon request
	Start up Time		10 ms				
	Phase Noise (Typical) @ 19.44 MHz	10 Hz -60	1 00 H z -90	1 kHz -120	10 kHz -135	100 kHz -148	Offset from carrier
	₩ 13.44 WITIZ	-00	-90	1-120	-133	-140	UDO/1/2

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

