M5RJ Series

9x14 mm, 3.3 Volt, LVPECL/LVDS, Clock Oscillator

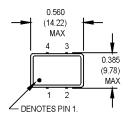




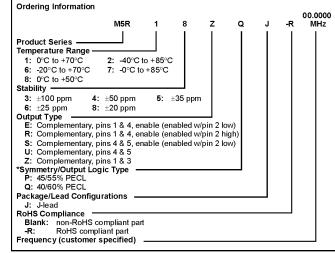




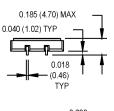
- Integrated phase jitter of less than 1 ps from 12 kHz to 20 MHz
- Ideal for 10 and 40 Gigabit Ethernet and Optical Carrier applications

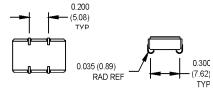


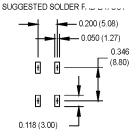
FREQUENCY RANGE	AVAILABLE OUTPUT TYPES			
19.440 to 170.000 MHz	Z, E, R			
170.000 to 800.000 MHz	S, U			



* Contact the factory regarding LVDS output availability





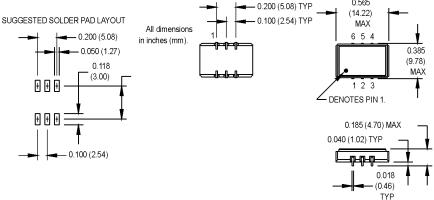


Pin Connections (Z, E, and R Output Types)

(—, —, anim ii a map ma i j p a a)					
FUNCTION	4 Pin	6 Pin			
Output/Q	1	1			
Enable		2			
Ground/Cover	2	3			
Output Q	3	4			
N/C		5			
+Vcc	4	6			

Pin Connections (S and U Output Types)

FUNCTION			
N/C			
N/C or Enable			
Ground/Cover			
Output Q			
Output/Q			
+Vcc			



							IYP
	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	19.44		245.76	MHz	See Note 1
	Operating Temperature	TA	(See Order	ing Inforn	nation)		
	Storage Temperature	Ts	-55		+125	°C	
	Frequency Stability	∆F/F	(See Ordering Information)				See Note 2
	Aging						
	1st Year			±2		ppm	
	Thereafter (per year)			±1		ppm	
ဋ	Input Voltage	Vcc	3.135	3.3	3.465	٧	
ţi	Input Current	lcc			75	mA	
fica	Output Type						LVPECL/LVDS
Electrical Specifications	Load		50 Ohms to Vcc -2.0 V Or Thevenin equivalent				PECL load
cal	Symmetry (Duty Cycle)		(See Order	(See Ordering Information)			@ Vcc-1.3 VDC
ctri	Output Skew				200	ps	PECL
E E	Differential Voltage		250	340	450	mV	LVDS
	Logic "1" Level	Voh	Vcc-1.02			V	PECL
1	Logic "0" Level	Vol			Vcc-1.63	٧	PECL
	Rise/Fall Time	Tr/Tf			0.55	ns	@ 20/80% LVPECL
				.50	1.0	ns	@ 20/80% LVDS
	Enable Function		PECL low: output active PECL high: output disables				"E" and "S" output types
			80% Vcc min. Or N/C: output active				"R" output type
			20% Vcc max.: output disables				
	Start up Time		, 5			ms	
	Phase Jitter	φJ					
	Below 600 MHz				1	ps RMS	Integrated 12 kHz - 20 MHz
	600 MHz and above				0.5	ps RMS	Integrated 12 kHz - 20 Mhz

- 1. Consult factory for exact frequency availability.
- 2. Calibration, deviation over temperature, shock, vibration, and aging.

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

