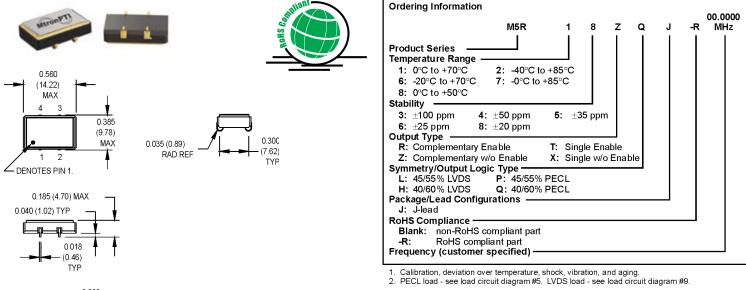
M5R Series

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





	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	0.75		800	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Frequency Stability	∆F/F	(See Ordering Information)			See Note 1	
	Aging						
	1st Year			±2	ppm		
	Thereafter (per year)			±1	ppm		
	Input Voltage	Vcc	3.135	3.3	3.465	V	
l	PECL Input Current	Icc			60	mA	0.75 to 24 MHz
Electrical Specifications					95	mA	24 to 96 MHz
					105	mA	96 to 800 MHz
≝	LVDS Input Current	lcc			30	mA	0.75 to 24 MHz
ရွိ					60	mA	24 to 800 MHz
 	Output Type						PECL/LVDS
Electric	Load						See Note 2
				50 Ohms to Vcc -2 VDC			PECL Waveform
			100 Ohm differential load				LVDS Waveform
	Symmetry (Duty Cycle)		(See Ordering Information)				@ Vcc-1.3 VDC (LVPECL)
							@ 50% of waveform (LVDS)
	Output Skew				200	ps	PECL
	Differential Voltage		250	340	450	mV	LVDS
	Logic "1" Level	Voh	Vcc-1.02			V	PECL
	Logic "0" Level	Vol			Vcc-1.63	V	PECL
	Rise/Fall Time	Tr/Tf		0.35	0.55	ns	@ 20/80% LVPECL
				.50	1.0	ns	@ 20/80% LVDS
	Enable Function		80% Vcc min. Or N/C: output active				
1			20% Vcc max.: output disables to hig			high-Z	"R" & "T" output types
	Start up Time			5		ms	
	Phase Jitter	φJ					Integrated 12 kHz - 20 MHz
	≥ 20 MHz			3	5	ps RMS	

- 1. Calibration, deviation over temperature, shock, vibration, and aging.
 - 2. PECL load see load circuit diagram #5. LVDS load see load circuit diagram #9.

0.560 (14.22) MAX 4 3 0.385 (9.78) MAX 1 2 DENOTES PIN 1. 0.185 (4.70) MAX 0.040 (1.02) TYP 0.200 (5.08) TYP	0.035 (0.89) RAD REF	0.30C (7.62) TYP	Production of the production o	ct S ration of the control of the co
		PARAMETER	Symbol	

All dimensions in inches (mm).

0.346 (8.80)

0.100 (2.54) TYP

- 0.100 (2.54)

OPTIONAL 6-PIN PACKAGE WITH TRISTATE

SUGGESTED SOLDER PAD LAYOUT

0.118 (3.00)

 \mathbf{H} \mathbf{H}

 \mathbf{H} \mathbf{H}

Pin Connections FUNCTION 6 Pin N/C or Output $\overline{\mathbf{Q}}$ 1 Enable Ground/Cover 2 3 Output Q 3 4 N/C 5 +Vcc

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

