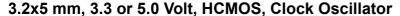
M3L & M5L Series

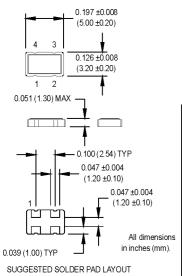








- Ultra-miniature size
- Ideal for PCMCIA cards, laptop/palmtop computers, wireless handsets, portable instrumentation



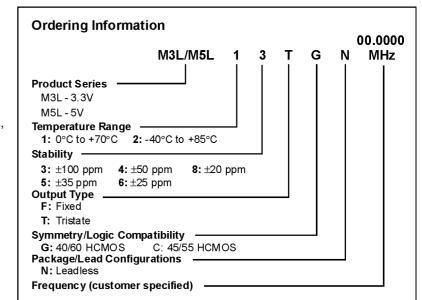
— 0.100 (2.54) **—** 0.063 (1.60)

0.098 (2.50)

Pin Connections

0.067 (1.70)

PIN	FUNCTION			
1	Tristate			
2	Ground			
3	Output			
4	+Vcc			



	PARAMETER	Cumbal	Min.	Тур.	Max	Units	Condition		
Electrical Specifications	Frequency Range	Symbol F	1.544	тур.	125	MHz	See Note 1		
	Operating Temperature	T _A					See ridering information		
	•			(see ordering information)			See ordering information		
	Storage Temperature	Ts	-55		+125	°C			
	Frequency Stability	ΔF/F	(see ordering information			ppm	.		
	Aging								
	1 st year		-5		+5	ppm			
	Thereafter (per year)		-4		+4	ppm			
	Input Voltage	Vdd	3.0	3.3	3.6	V	M3L		
			4.5	5.0	5.5	V	M5L		
	Input Current	ldd							
	Frequencies up to 50 MHz				35	mA			
	50.001 – 67.000 MHz				45	mA			
	67.001 – 125.000 MHz				55	mA			
	Output Type						HCMOS		
	Load				15	pF	See Note 2		
	Symmetry (Duty Cycle)		(see ordering information)				50% Vdd reference level		
ಭ	Logic "1" Level	Voh	90% Vdd			V			
Ele	Logic "0" Level	Vol			10%	V			
	Output Current				±4	mA	M3L		
					±12	mA	M5L		
	Rise/Fall Time	Tr/Tf					10% to 90% Vdd		
	frequencies up to 50 MHz				7	ns			
	50.001 - 67.000 MHz				4	ns			
	67.001 – 125.000 MHz				3	ns			
	Tristate Function		Input Logic "1" or floating: output active						
			Input Logic "0": output to high-Z						
	Start up Time				10	ms			
	Random Jitter	Rj		5	15	ps RMS	1-sigma		
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave)							
	Vibration		Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)							
	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)							
ΙĒ	Solderability	Per EIAJ-STD-002							
ĮΨ	Soldering Conditions	+240°C max. for 10 secs.							
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- 1. Because this product is based on AT-strip technology, not all frequencies in the range stated are available. Contact the factory for availability of specific frequencies.
- 2. CMOS load See load circuit diagram #2.

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.