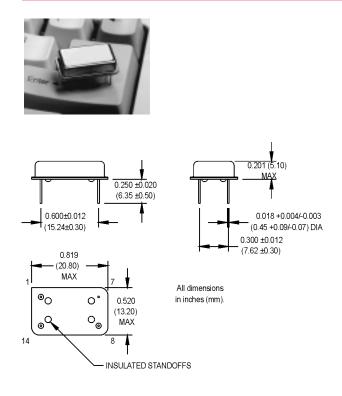
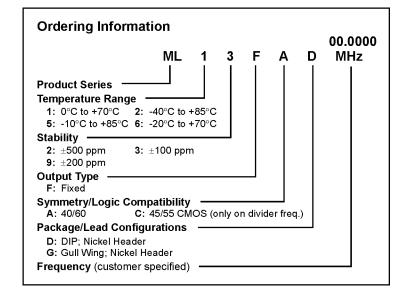
ML Series Micropower CMOS Oscillators





See page 146 for gull wing configuration.



Available Stabilities vs. Temperature

s	2	3	9	
1	А	S	A	
2	А	Ν	Ν	
5	А	Ν	Ν	
6	А	Ν	Ν	

Pin Connections

PIN	FUNCTION(S)			
1	N/C			
7	Circuit/Case Ground			
8	Output			
14	+Vdd			

Divider Output Frequencies

2048 Hz	128 Hz	4 Hz	
1024 Hz	64 Hz	2 Hz	
512 Hz	32 Hz		
256 Hz	8 Hz		

	PARAMETER	Symbol	Min.	Тур.	Мах.	Units	Condition
Electrical Specifications	Frequency Range	F	2 Hz		32.768	kHz	
			See "Divider Output Frequencies" table for available frequencies				
	Frequency Stability	∆ F/F	(See Ordering Information)				
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vcc	3.0	5.0	6.0	V	Except as Noted
	Input Current ¹	ldd			15	μ A	Vdd = 3.0 V
	32.768 kHz only				25	μΑ	Vdd = 5.0 V
					35	μΑ	Vdd = 6.0 V
	Symmetry (Duty Cycle)		40	50	60	%	½ Vdd
	Load ²				15	pF	
	Rise/Fall Time ³	Tr/Tf					
	< 32.768 kHz				50	ns	
	32.768 kHz				10	ns	
	Logic "1" Level	Voh	80% Vdd			V	
	Logic "0" Level	Vol			20% Vdd	V	
	Startup Time	Ts		500		ms	@ 32.768 kHz
al	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
ent	Vibration	Per MIL-STD-202, Method 201 & 204					
Environmental	Reflow Solder Conditions	See page 147					
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 [®] atm.cc/s of helium)					
Ē	Solderability	Per EIAJ-STD-002					

1. Supply current for divided output is slightly higher that listed.

See load circuit diagram #2 on page 148.
Rise/Fall times are measured between 20% Vdd and 80% Vdd.

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M-tron Industries, Inc., PO Box 630, Yankton, SD 57078-0630, USA Phone: 605-665-9321 or 1-800-762-8800 Fax: 605-665-1709 Website: www.mtron.com M-tron Industries Limited, 1104 Shanghai Industrial Investment Building, 48-62 Hennessy Road, Wanchai, Hong Kong, China Phone: 852-2866-8023 Fax: 852-2529-1822