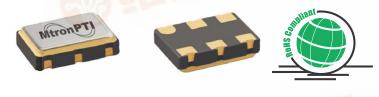
查询M200123FCN供应商

M2001 Series 5x7 mm, 3.3 Volt, CMOS/LVPECL/LVDS, Clock Oscillator



- Low cost oscillator series with jitter performance op-• timized specifically for Fibre Channel applications. CMOS, LVPECL, and LVDS versions available.
- Ideal for Fibre Channel, Storage Area Networks (SAN), and HDD Control

Ordering Information	M2001 1 5 T L N	00.0000 MHz
Product Series	EL DISC.COM	
Temperature Range 1: 0°C to +70°C 6: -20°C to +70°C 8: 0°C to +50°C		
Stability		
3: ±100 ppm 6: ±25 ppm	4: ±50 ppm 5: ±35 ppm	
Output Type		
F: Fixed	T: Tristate	
Symmetry/Output Logi C: 45/55 CMOS P: 45/55 PECL		
Package/Lead Configu N: Leadless Ceramic	rations CDM	
Frequency (customer s	specified)	

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M2001Sxxx - Contact factory for datasheet

捷多邦,专业PCB打样工厂

PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
Frequency Range	F	53.125		125	MHz	CMOS	
1 7 3		53.125	1	156.25	MHz	PECL/LVDS	
Operating Temperature	TA		ee order	ing information	on)		
Storage Temperature	Ts	-55	1	+125	l∘C		
Frequency Stability	ÄF/F	(See ordering information		on)	See Note 1		
Aging				T	T		
1 st Year			+2		ppm		
Thereafter (per year)			+1		ppm		
Input Voltage	Vcc/Vdd	3.135	3.3	3.465	V		
Input Current	Vdd/ldd			60	mA	CMOS/LVDS	
•				100	mA	PECL	
Output Type		1	1	1	1	CMOS/PECL/LVDS	
Load Symmetry (Duty Cycle) Output Skew Differential Voltage Logic "1" Level		15 pF	L		1	CMOS (See Note 2)	
		50 Ohms to Vcc-2 VDC		-	PECL (See Note 3)		
		100 Ohms	different	ial load		LVDS (See Note 4)	
Symmetry (Duty Cycle)	1	45	50	55	%	50% Vdd (CMOS)	
5 5 5 5 7		45	50	55	%	Vcc-1.3 VDC (PECL)	
		45	50	55	%	1.25 VDC (LVDS)	
Output Skew 📃 📕		1		200	ps	PECL	
Differential Voltage	Vo	250	340	450	mV	LVDS	
Logic "1" Level	Voh	90% Vdd			V	CMOS	
		Vcc -1.02			V	PECL	
		1.375			V	LVDS	
Logic "0" Level	Vol	11010		10% Vdd	V	CMOS	
				Vcc-1.63	V	PECL	
				1.125		LVDS	
Output Current		-4	1	+4	mA	CMOS	
Rise/Fall Time	Tr/Tf	1		3	ns	CMOS @20/80%	
			0.35	0.55	ns	LVPECL @ 20/80%	
			.50	1.0	ns	LVDS @ 20/80%	
Tristate Function		80% Vdd n	nin or flo	ating: output	active		
		20% Vdd m					
Start up Time				10	ms		
Peak to Peak Jitter (+/-)	Ti		I	Sec. C.	10.0	@ BER 1E-12 (See Note 5)	
		- LC	10	15	ps	CMOS	
		and the second design of the	15	20	ps	PECL/LVDS	
Mechanical Shock	Per MIL-S	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 ⁻⁵ atm. cc/s of Helium)					
Thermal Cycle	000000000000000000000000000000000000000	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)					
Solderability	Per EIAJ-S					,	
Max Soldering Conditions	See solder profile, Figure 1						

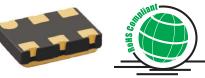
Inclusive of initial tolerance, deviation over temperature, shock, vibration, voltage and aging. See Load circuit diagram #2. See Load circuit diagram #5. See Load circuit diagram #5. See Load circuit diagram #9. See jitta test circuit in Figure 1.

df. Mum PTDreserves 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.

M2001 Series 5x7 mm, 3.3 Volt, CMOS/LVPECL/LVDS, Clock Oscillator

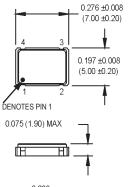


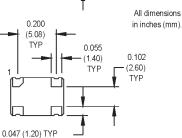




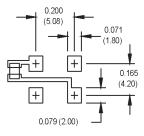
CMOS Output

ACTUAL SIZE

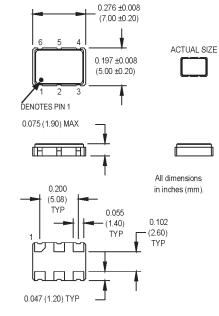




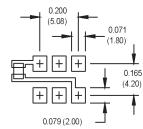
SUGGESTED SOLDER PAD LAYOUT



Pin Connections				
FUNCTION				
Tristate/NC				
Ground				
Output				
+Vdd				



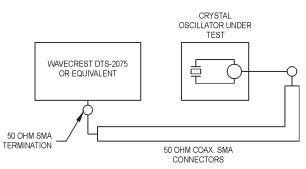
SUGGESTED SOLDER PAD LAYOUT



Pin Connections

PIN	FUNCTION		
1	Tristate		
2	N/C		
3	Ground		
4	Output1/Q		
5	Output2/ Q		
6	+Vdd		

Figure 1



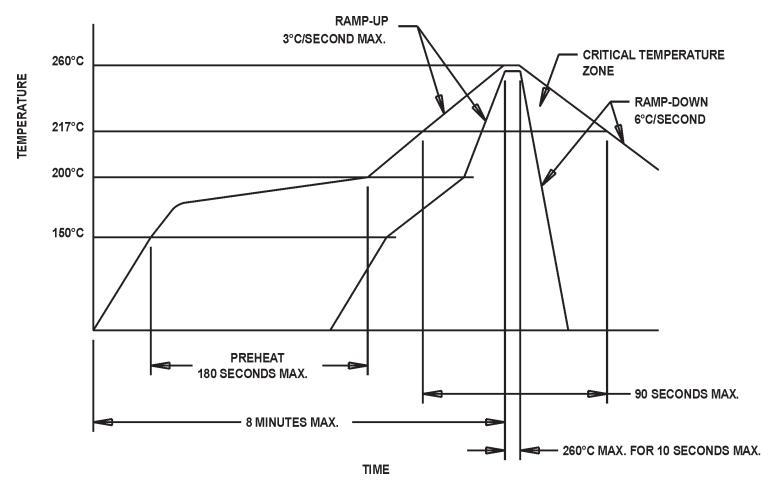
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LVPECL/LVDS Output



MtronPTI Lead Free Solder Profile



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