



# M6007 & M6008 Series

## 9x14 mm FR-4, 5.0 or 3.3 Volt, HCMOS/TTL, TCVCXO



PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Frequency Range	F	60		170	MHz	
Frequency Stability	$\Delta F/F$	(See Ordering Information)				
Operating Temperature	TA	(See Ordering Information)				
Storage Temperature	TS	-55		+85	°C	
Input Voltage	Vdd	3.0	3.3	3.6	VDC	
		4.5	5.0	5.5	VDC	
Input Current	Did			15	mA	3.3 Volt
				20		5.0 Volt
Symmetry (Duty Cycle)		(See Ordering Information)				
Load		5 TTL or 15 pF Max.				
Rise/Fall Time	Tr/Tf			10	ns	
Logic "1" Level	Voh	2.4			VDC	TTL Load
		90			%	HCMOS Load
Logic "0" Level	Vol			10	VDC	TTL Load
				0.4	%	HCMOS Load
Phase Jitter	$\phi J$		TBD		ps RMS	Cycle-to-Cycle
Aging <sup>1</sup>						
Modulation Bandwidth	fm	10			kHz	
Input Impedance (Pin 1)	Zin	100			K $\Omega$	
Control Voltage	Vc	0	1.65	3.3	VDC	3.3 Volt
						5.0 Volt
Center Frequency	VcO		1.65		VDC	3.3 Volt
						5.0 Volt
Pullability		(See Ordering Information)				
Deviation Slope						Positive, Monotonic
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C				
	Vibration	Per MIL-STD-202, Method 201 & 204				
	Reflow Solder Conditions	See "Figure 2" on page 147				
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-3</sup> atm.cc/s of helium)				
	Solderability	Per EIAJ-STD-002				

1. Stability is inclusive of 5 year aging @ 25°C.

TCXO

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