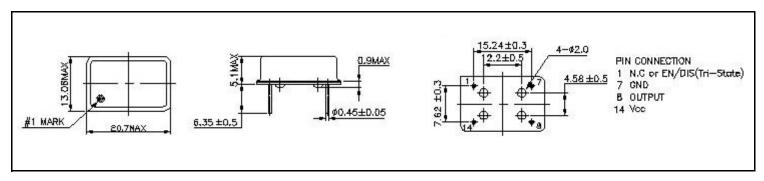
TTL/HCMOS CRYSTAL OSCILLATOR

MCO-1510A / MCO-1510B (FULL SIZE)

■ SPECIFICATIONS

Model	МС	O-1510A	М	CO-1510B
Package	14Pin Dip(Full Size)		14Pin Dip(Full Size)	
Frequency Range (Fo)	1.000MHz	z to 100.000MHz	1.000M	Hz to70.000MHz
Frequency Stability (f/fo)	A=±25ppm,B=±50ppm,C=±100ppm			
Operating Temperature Range (TOPR)	0°C to 70°C,-40°C to 85°C(Available)			
Storage Temp. Range (TOPR)	-55°C to 125°C			
Power Supply Voltage (Vdd)	5Vdc±0.5Vdc		3.3	Vdc±0.3Vdc
Aging (at25°C)	±5ppm/year Max.			
Supply Current (Idd)	1.000MHz to 23	3.999MHz 20mA Max.	1.000MHz to 23.999MHz 10mΔ	
	24.000MHz to 5	50.000MHz 30mAMax.		
	50.000MHz to7	0.000MHz 40mA Max.	24.000MHz to	
	70.000MHz to10	00.000MHz 60mAMax		
Output Symmetry (At50% Vdd)	40 to 60%Normal,45 to 55%Tight			
Rise and Fall Time(Tr,Tf) 10% to 90% of Waveform W/Hcmos Load	±5ns Max.			
Output Voltage Logic High (Voh)	4.5V min		2.7Vdc minimum	
Output Voltage Logic Low (Vol)	0.5Vdc max		0.4Vdc max	
Output Load	1.000MHz to 40.000MHz	10TTL Load or 50pF HCMOS Load	1.000MHz to 24.000MHz	2TTL Load or 15pF HCMOS Load Max
	40.000MHz to 1000.000MHz	10TTL Load or 15pF HCMOS Load	24.000MHz to70.000MHz	15pFHCMOSLoadMax
pin 1			No Connection	No Connection to Enables Output
Tri-State Tri			Vih	2.2V dc Minimum to Enable Output
Input Voltage			Vih	0.8Vdc Max.to disable Out@ut

DIMENSIONS



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