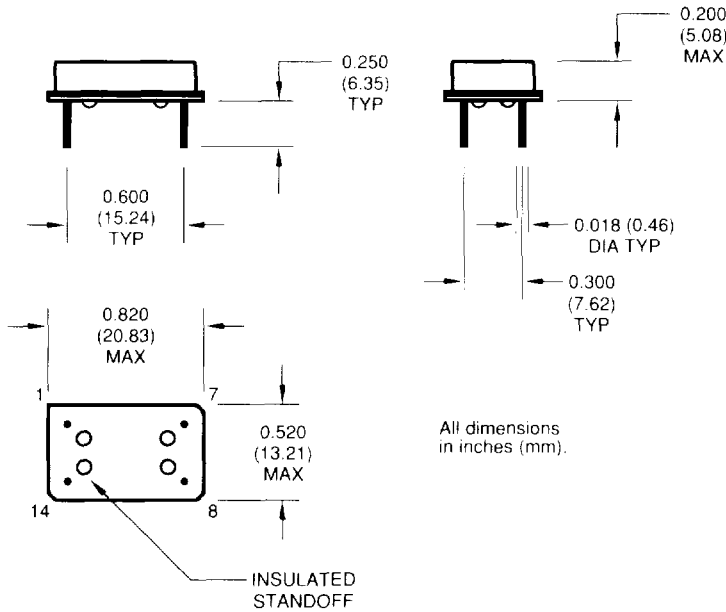


Competitively Priced CMOS Oscillators



Part Marking and Numbering MCO 1 3 F A D

Product Series MCO

Temperature Range

1: 0°C to +70°C 2: -40°C to +85°C
 3: -55°C to +105°C 4: -55°C to +125°C
 5: -10°C to +85°C 6: -20°C to +70°C
 7: 0°C to +85°C

Stability

1: ± 1000 ppm 2: ± 500 ppm
 3: ± 100 ppm 4: ± 50 ppm
 5: ± 35 ppm 6: ± 25 ppm
 7: +0/-200 ppm

Output Type

F: Fixed D: Dual-(master & divided output)
 C: Dual Complementary (3.000 to 12.000 MHz)

Symmetry/Logic Compatibility

A: 40/60 C: 45/55 CMOS

Package/Lead Configurations

D: DIP, Nickel Header G: Gull Wing; Nickel Header

Pin Connections

PIN	FUNCTION
1	N/C or optional dual output
7	Circuit/Case Ground
8	Output
14	+V _{dd}

Electrical Specifications

(Standard Operating Conditions 0°C to +70°C)

PARAMETERS	+5 VDC Supply			+15 VDC Supply			UNITS
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Frequency Range	0.732 kHz		6.000	0.732 kHz		12.000	MHz
Output Load		15			15		pF ²
Symmetry							
0.732 kHz to 2.990 MHz	40/60	50/50	60/40	40/60	50/50	60/40	%
3.000 to 6.000 MHz	40/60		60/40	40/60		60/40	%
6.010 to 12.000 MHz				40/60		60/40	%
Logic "0" Level		0.2	10% V _{dd}		0.2	10% V _{dd}	V
Logic "1" Level	90% V _{dd}	V _{dd} -0.2		90% V _{dd}	V _{dd} -0.2		V
Rise/Fall Time		150			55		ns
Supply Current							
0.732 kHz to 2.990 MHz		3			20		mA
3.000 to 6.000 MHz		2			14		mA
6.010 to 12.000 MHz					20		mA

2- See load circuit #2 on page 32.

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Available Stabilities vs Temperature

T \ S	1	2	3	4	5	6	7
1	A	A	S	A	A	A	A
2	A	A	A	A	A	A	A
3	A	A	A	A	N	N	A
4	A	A	A	N	N	N	A
5	A	A	A	A	A	A	A
6	A	A	A	A	A	A	A
7	A	A	A	A	A	A	A

A = AVAILABLE S = STANDARD
 N = NOT AVAILABLE

Available Symmetry

FREQ. RANGE	STD.	OPTIONS
up to 3.000 MHz	A	C
3.000 to 12.000 MHz	A	