Quickturn Oscillators



4 Industry Standard Packages

2-3 Day DeliveryThru-Hole and SMD Packages

- CMOS/TTL Output
- Stability to ±20ppm
- Wide Frequency Range



Electrical Specifications

Frequency Range		1.000MHz to 150.000MHz
Frequency Stability		±100ppm to ±20ppm
Operating Temperature Range		0°C - 70°C to -40°C - 85°C
Storage Temperature Range		-55°C - 125°C
Aging (@25°C)		±5ppm / year maximum
Supply Voltage (Vdd)		5.0Vdc ±10% or 3.3Vdc ±10%
Supply Current (unloaded)	5V	45mA
	3.3V	25mA
Output Voltage Logic High	TTL	2.4V min
	CMOS	Vdd - 0.4V min
Output Voltage Logic Low		0.4V max
Load Drive Capability (TTL)	5V, 1 - 40MHz	50pF max
	5V, 40 - 133MHz	25pF max
Load Drive Capability (CMOS)	5V, 1 - 66.6MHz	50pF max
	5V, 66.6 - 133MHz	25pF max
	3.3V, 1 - 40MHz	30pF max
	3.3V, 40 - 100MHz	15pF max
Duty Cycle (1.4Vdc-TTL, 50% waveform-HCM0	OS) 1 - 66MHz	45/55
	66MHz and above	40/60
Rise / Fall Time		4nSec max
Start Up Time		10mSec max
Jitter	5V, 1 - 33MHz	50pSec max* (RMS)
	5V, above 33.000MHz	30pSec max* (RMS)
	3.3V, 1 - 33MHz	50pSec max* (RMS)
	3.3V, above 33.000MHz	40pSec max* (RMS)
*Please contact your MMD representative for u	p-to-date typical litter information	·



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Part Numbering Guide MQ Frequency T&R **Supply Voltage** Pin 1 Connection **Output Packaging** Blank = 5 Volt C = CMOS Blank = Tri-state* Blank = Bulk 3 = 3.3 VoltH = Tri-state* T = TTLT&R = Tape and Reel Frequency Stability **Operating Temperature** Value Added Options Package Style A = Full-size (14 pin DIP) $100 = \pm 100$ ppm Blank = 0°C to 70°C Blank = No Added Options $050 = \pm 50$ ppm $27 = -27^{\circ}C$ to $70^{\circ}C$ G1 = Gull-Wing (Option 1) B = Half-size (8 pin DIP) $025 = \pm 25ppm$ $48 = -40^{\circ}$ C to 85° C G = Gull-Wing (Option 2) I = 5X7 Ceramic SMD $020 = \pm 20$ ppm D = Plastic J-lead SMD CLXXX = Cut Leads XXX = lead length code *Tri-state Operation Logic 1 or NC = Oscillation Logic 0 or GND = High Impedance

Value Added Options

Environmental / Mechanical

Shock: MIL-STD-883, Method 2002, Condition B
Solderability: MIL-STD-883, Method 2003
Solvent Resistance: MIL-STD-202, Method 215
Vibration: MIL-STD-883, Method 2007, Condition A
Gross Leak Test: MIL-STD-883, Method 1014, Condition C
Fine Leak Test: MIL-STD-883, Method 1014, Condition A2

Gull-Wing (G option) -

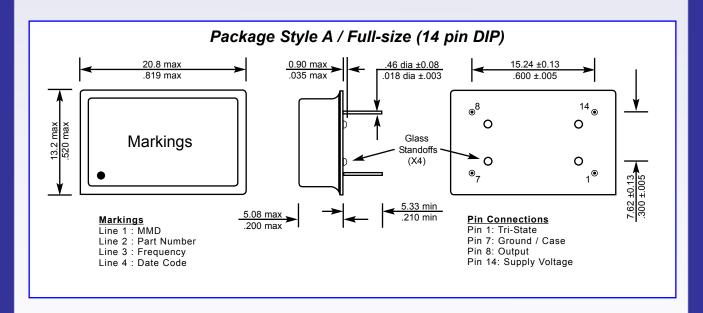
For specification details refer to page VA3

Cut Leads (CLXXX option) For specification details refer to page VA1

Gull-Wing (G1 option) -

For specification details refer to page VA3

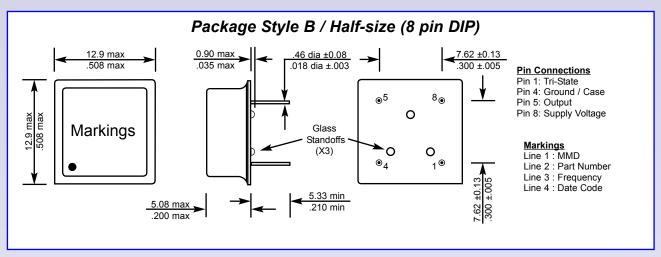
Mechanical Dimensions

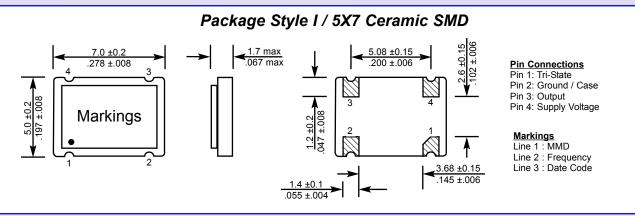


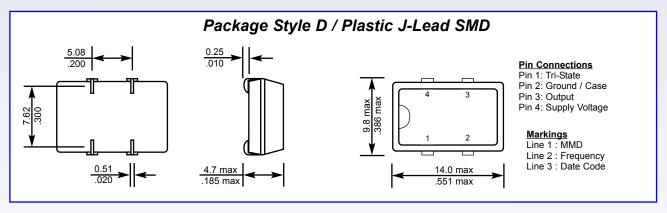
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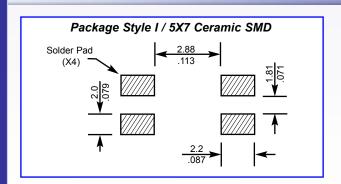
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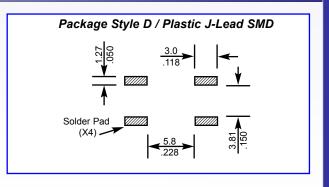






Suggested Solder Pad Layout





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