



Specifications

Package		SHOR
Frequency Range (fo)		0.500MHz ~ 160.000MHz
Logic Family		HCMOS
Freq. Stability (Df/fo)		±100ppm
Aging/Year (fa)		5ppm
Temp. Range	Operating (TOPR)	0°C ~ +70°C
	Storage (TSTG)	-55°C ~ +125°C
Phase Jitter RMS (12-20MHz)		1pS Max

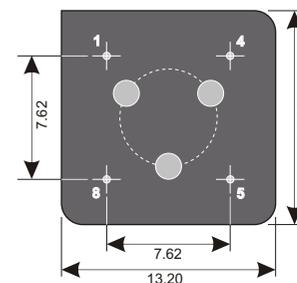
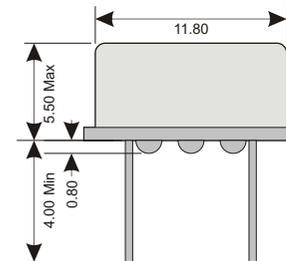
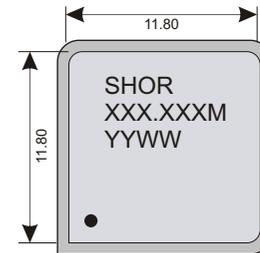
Electrical - HCMOS

Power Supply	Voltage (VDD)	5.0Vdc ±10%
	INPUT Current	
	0.5 ~ 20.0MHz	20mA Max
	20.1 ~ 70.0MHz	40mA Max
	70.1 ~ 100.0MHz	45mA Max
100.1 ~ 160.0MHz	50mA Max	
Stand-by current		10uA Max
Output	Load	15pF
	Voltage (VOL Max.)	0.1 Vdd
	Voltage (VOH Min.)	0.9 Vdd
Start-up Time		10mS Max
Rise (TR) & Fall (TF) Time		
0.5 ~ 20.0MHz		10nS Max
20.1 ~ 70.0MHz		6nS Max
70.1 ~ 100.0MHz		4nS Max
100.1 ~ 160.0MHz		2nS Max
Symmetry/Duty		45/55 @ 50% Level

Enable / Disable

U Option (Page 2)	Default	U2
70%Vcc Min (Pin 1)	Enabled Active (Pin 5)	Disabled High Z (Pin 5)
N/C or Open (Pin 1)	Enabled Active (Pin 5)	Disabled High Z (Pin 5)
30%Vcc Max (Pin 1)	Disabled High Z (Pin 5)	Enabled Active (Pin 5)
Enable Time	10mS Max	10mS Max
Disable Time	100nS Max	100S Max

Dimensions (mm)



Lead Free



EU RoHS
EU RoHS
Leaf
Compliant



Reach
Compliant



China
RoHS
Compliant



Conflict
Minerals
Free

Connections

Pin 1	Enable / Disable
Pin 4	Ground
Pin 5	Output
Pin 8	Vdd



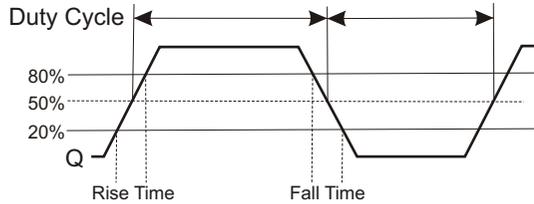
Absolute Maximum Ratings

Maximum Storage Temp	-55°C ~ +125°C
Voltage (VDD)	7.0 VDC
Input Voltage	-0.5Vdc ~ Vdd+0.5Vdc

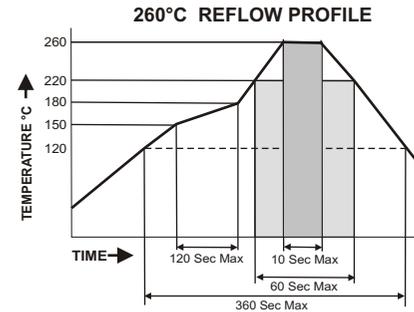
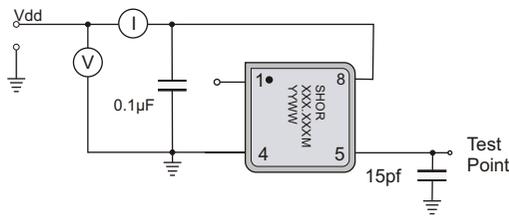
Environmental And Mechanical

Temperature	10 Cycles of -30°C (30Mins), Normal (1Hr), 85°C (30Mins), Normal (1Hr)
Shock	Accelerated at 1000G for 1mS in each perpendicular axis.
Vibration	4 Cycles of 20G acceleration at 20 - 2,000Hz within 4 Minutes in each perpendicular axis.
Solder	Peak Temperature of 260°C Max for 10 Seconds with preheat of 160°C for 90±10% for 10 Seconds for a Maximum of 2 Cycles.

Waveform



Test Circuit



Part Number

SHOR - XXX.XXX M-SX RX UX

Stability	
S1	±50ppm
S2	±25ppm
SC	Cust. Stability

Temp Range	
R4	-20°C ~ +70°C
R6	-40°C ~ +85°C

Enable / Disable	
U2	Lo Enable

Enable / Disable: **Default:** Enabled Hi
 Temperature Range: **Default:** 0°C ~ +70°C
 Stability: **Default:** ±100ppm
 Frequency: 0.500MHz ~160.000MHz; must be specified
 Standard RoHS Compliant 13.2 x 13.2mm (4)Pin Half-Size Dip Thru-Hole Oscillator

Example: **SHOR-125.000M** 125.000MHz, 5.0V ±100ppm Oscillator operating at 0°C ~ +70°C
 Example: **SHOR-125.000M-S2R6** 125.000MHz, 5.0V ±25ppm Oscillator operating at -40°C ~ +85°C

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

PLEASE CONTACT YOUR IMPACT SALES REPRESENTATIVE FOR CUSTOM SPECIFICATIONS, CURRENT INFORMATION, PRICING AND AVAILABILITY.