

Product Features

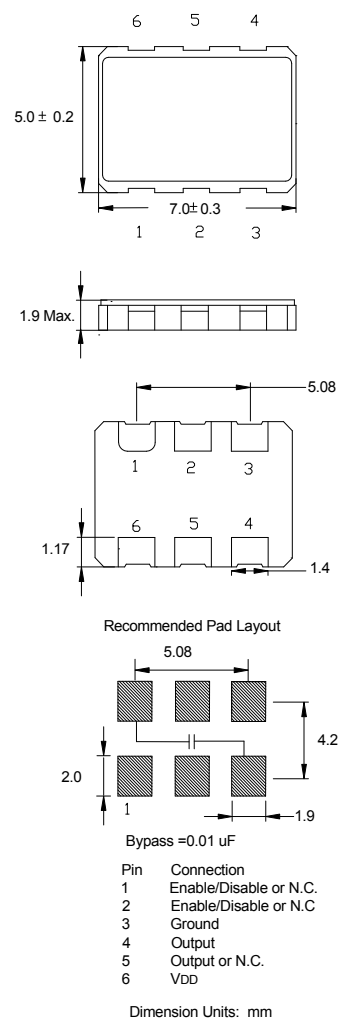
Small Surface Mount Package
Fast Sample Delivery
Frequencies to 1500 MHz
Pb Free/ RoHS Compliant
Leadfree Processing

Applications

xDSL
Broadcast video
Wireless Base Stations
Sonet /SDH
WiMAX/WLAN
Server and Storage

Ethernet/LAN/WAN
Optical modules
Clock and data recovery
FPGA/ASIC
Backplanes
GPON

Frequency LVCMOS LVPECL LVDS	10 MHz to 250 MHz 10 MHz to 1500 MHz 10 MHz to 1500 MHz
Output Level LVCMOS LVPECL LVDS	VOH=90% VDD min., VOL=10 % VDD max. VOH=VDD-1.03V max. (Nom. Load), VOL=VDD-1.6V max. (Nom. Load) VOD=(Diff. Output) 350mV Typ.
Duty Cycle LVCMOS LVPECL LVDS	50% ±5% @ 50%VDD 50% ±5% @ 50%* 50% ±5% @ 50%*
Rise / Fall Time LVCMOS LVPECL LVDS	3.0 ns max. (90%/10%)* 0.6 ns max. (80%/20%)* 0.6 ns max. (80%/20%)*
Output Load LVCMOS LVPECL LVDS	15pF 50 Ω to VDD - 2.0 VDC RL=100 Ω/CL=10pF
Frequency Stability	See Table Below
Supply Voltage	3.3 VDC ± 10%, 2.5VDC ± 5%
Current	LVCMOS = 45 mA max., LVPECL = 65 mA max., LVDS = 35 mA max.
Phase Jitter (RMS) At 12kHz to 20 MHz	0.9 ps typical
Operating Temp. Range	See Table Below
Storage	-40° C to +100° C



Part Number Guide		Sample Part Number: ISM63-31A3H1-155.520					
Package	Input Voltage	Operating Temperature	Stability (in ppm)	Output	Enable / Disable	Complimentary Output (Pin 5) **	Frequency
ISM63	3 = 3.3V	1 = 0° C to +70° C	F = ±20	3 = LVCMOS	H = Enable (Pin 1)	1 = N.C.	-155.520 MHz
	6 = 2.5V	3 = -20° C to +70° C	A = ±25	8 = LVDS	K = Enable (Pin 2)	2 = Output	
		2 = -40° C to +85° C	B = ±50	9 = LVPECL			

NOTE: A 0.01 μF bypass capacitor is recommended between VDD (pin 6) and GND (pin 3) to minimize power supply noise. * Measured as percent of waveform. ** Available on LVDS and LVPECL output only.

Environmental Specifications

Thermal Shock	MIL-STD-883, Method 1011, Condition A
Moisture Resistance	MIL-STD-883, Method 1004
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Mechanical Vibration	MIL-STD-883, Method 2007, Condition A
Resistance to Soldering Heat	J-STD-020C, Table 5-2 Pb-free devices (except 2 cycles max)
Hazardous Substance	Pb-Free / RoHS / Green Compliant
Solderability	JESD22-B102-D Method 2 (Preconditioning E)
Terminal Strength	MIL-STD-883, Method 2004, Test Condition D
Gross Leak	MIL-STD-883, Method 1014, Condition C
Fine Leak	MIL-STD-883, Method 1014, Condition A2, R1=2x10 ⁻⁸ atm cc/s
Solvent Resistance	MIL-STD-202, Method 215

Marking

Line 1: ILSI and Date Code (YWW)

Line 2: Frequency

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

[ISM63-32A3H1-20.000MHZ](#) [ISM63-32A3H1-60.000MHZ](#) [ISM63-32A3H1-66.000MHZ](#) [ISM63-32A8H2-166.000MHZ](#)
[ISM63-32A9H2-150.000MHZ](#) [ISM63-32A9H2-622.080MHZ](#) [ISM63-33A3H1-14.7456MHZ](#) [ISM63-33A3H1-32.768MHZ](#)
[ISM63-33A3H1-33.000MHZ](#) [ISM63-33A3H1-35.328MHZ](#) [ISM63-62A3H1-100.000MHZ](#) [ISM63-62A8H2-100.000MHZ](#)
[ISM63-62A8H2-1000.000MHZ](#) [ISM63-62A8H2-250.000MHZ](#) [ISM63-62A8H2-312.500MHZ](#) [ISM63-62A8H2-50.000MHZ](#)
[ISM63-62A9H2-200.000MHZ](#) [ISM63-62A9H2-212.500MHZ](#) [ISM63-62B8H2-150.000MHZ](#) [ISM63-62B8H2-](#)
[155.520MHZ](#) [ISM63-62B9H2-100.000MHZ](#) [ISM63-62B9H2-1000.000MHZ](#) [ISM63-62B9H2-1244.160MHZ](#) [ISM63-](#)
[62B9H2-491.520MHZ](#) [ISM63-62B9H2-500.000MHZ](#) [ISM63-63A3H1-18.432MHZ](#) [ISM63-63A3H1-200.000MHZ](#) [ISM63-](#)
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