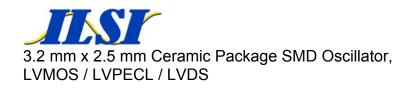




<b>Product Features</b> Small Surface Mount Package Fast Sample Delivery Fast Sample Delivery Pb Free/ RoHS Compliant Leadfree Processing	Applications xDSL Broadcast Video Wireless Base Stations Sonet /SDH WiMAX/WLAN Server and Storage	Ethernet/LAN/WAN Optical modules Clock and data recovery FPGA/ASIC Backplanes GPON	.60 TYP	2.50±0.10 1.00±0.15	
Frequency LVCMOS LVPECL LVDS Output Level LVCMOS LVPECL LVDS Duty Cycle LVMOS LVPECL LVDS Rise / Fall Time		00MHz 00MHz c max, Logic "1" = 90% of Vcc min nax., Logic "1" = 1.02 V min 0mV Typ.		1.30 TYP	
LVCMOS LVPECL LVDS Output Load LVCMOS LVPECL	2.0 ns max. (10% to 90 0.8 ns max. (20% to 80 0.8 ns max. (20% to 80 15pF 50 Ω to Vcc - 2.0 VDC	0%)* 0%)*	.90	.90 80 Pattern	
LVDS	RL=100 Ω/CL= 5pF			SNC	
Frequency Stability		See Table Below		isable C	
Supply Voltage (Vcc)		+3.30 VDC ± 5%, +2.50 VDC ± 5%		isable	
Aging Current	±3.0 ppm max per yea HCMOS = 45 mA max LVPECL = 90 mA max LVDS = 35 mA max		PIN 2 or N/0 PIN 3 Grour PIN 4 Output	C nd ut	
Phase Jitter (RMS) (12kHz to 20MHz)	0.9 ps typical	0.9 ps typical PIN 5 Comp. Output or N/C			
Operating Temp. Range	See Table Below		PIN 6 Voltage S		
Storage Temp. Range	-40° C to +85° C		Dimension Units:	mm	
otoraye remp. Kanye			J		

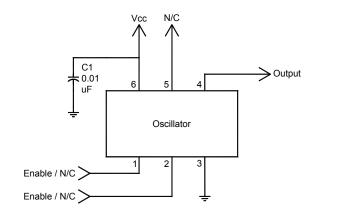
Part Number Guide Sample Part Number: ISM67-31A9H2-155.520							
Package	Input Voltage	Operating Temperature	Stability (in ppm)	Output	Enable / Disable	Complimentary Ouput (Pin 5) **	Frequency
ISM67	3 = 3.3V	1 = 0° C to +70° C	F = ±20	3 = LVCMOS	H = Enable (Pin 1)	1 = N.C.	-155.520 MHz
	6 = 2.5V	2 = -40° C to +85° C	A = ±25	8 = LVDS	K = Enable (Pin 2)	2 = Output	
		3 = -20° C to +70° C	B = ±50	9 = LVPECL			

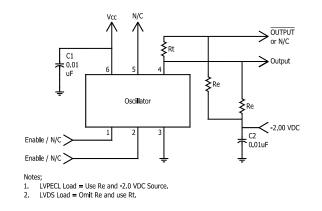
NOTE: A 0.01 µF bypass capacitor is recommended between V<sub>DD</sub> (pin 6) and GND (pin 3) to minimize power supply noise. \* Measured as percent of waveform. \*\* Available on LVDS and LVPECL ouput only.



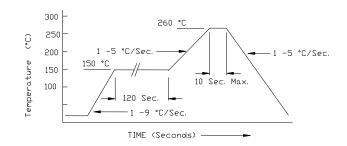


# **Typical Application:**





## **Pb Free Solder Reflow Profile:**

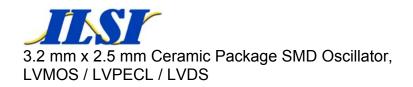


\*Units are backward compatible with 240C reflow processes

## **Package Information:**

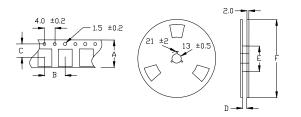
MSL = N.A. (package does not contain plastic, storage life is unlimited under normal room conditions). Termination = e4 (Au over Ni over W base metallization).

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## **Tape and Reel Information:**



Quantity per Reel	1000	
Α	16 +/3	
В	8 +/2	
С	7.5 +/2	
D	17.5 +/-1	
E	50 / 60 / 80	
F	180 / 250	

## **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

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