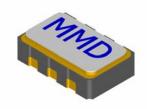
MMUL Series - 5 x 3.2 Custom Oscillator



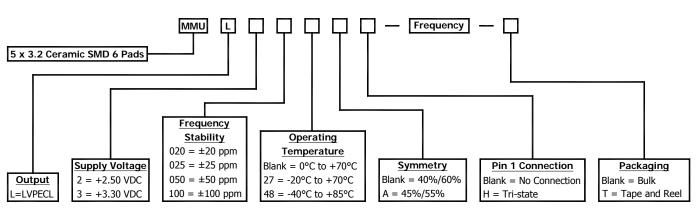
- > 5 X 3.2 SMT Package 6 Pins
- > LVPECL Output
- > Tri-state Function
- > RoHS Compliant
- > Tape and Reel Packing Available



ELECTRICAL SPECIFICATION:

Frequency Range	74.250MHZ to 161.1328MHZ		
Temperature Stability (Inclusive of Temperature, Load, Voltage, and Aging)	(See Part Number Guide for Options)		
Operating Temperature Range	(See Part Number Guide for Options)		
Storage Temperature Range	-55°C to +125°C		
Supply Voltage (V _{dd}) ±5%	+2.50 VDC		
Supply Current	75mA max		
Output	LVPECL		
Logic "0"	1.43 VDC typ, 1.60 VDC max		
Logic "1"	1.10 VDC typ, 0.90 VDC min		
Load	50Ω into V _{dd} -2.0VDC		
Symmetry (50% of waveform)	(See Part Number Guide for Options)		
Rise/Fall Time (20% to 80%)	300p Sec typ, 700pSec max		
RMS Phase Jitter (12kHZ to 20MHZ)	1pSec max		
Phase Noise	100 Hz -95 dBc/Hz 1 kHz -125 dBc/Hz 10 kHz -143 dBc/Hz 100 kHz -146 dBc/Hz		
Start-up Time	10mSec max		
Tri-state Operation	Voh = 70% of Vdd min or No Connection to Enable Output Vol = 30% max or grounded to Disable Output (High Impedance)		

PART NUMBER GUIDE:

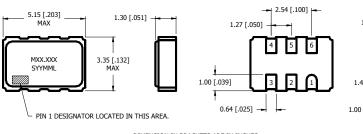


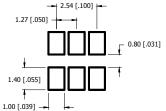
Please Consult with MMD Sales Department for any other Parameters or Options

MECHANICAL DIMENSIONS:

MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688 Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
Sales@mmdcomp.com

In the event of conflict, the requirements of this specification shall govern.		Revision:		MMUL092209A
Revisions only with customer approval	Page 1 of 2	Release: AWV	Date:	09/30/09





	PIN CONNECTIONS
PIN 1	TRI-STATE
PIN 2	NO CONNECTION
PIN 3	CASE GROUND
PIN 4	OUTPUT
PIN 5	COMPLEMENTARY OUTPUT
PIN 6	SUPPLY VOLTAGE

DIMENSION IN BRACKETS ARE IN INCHES EXTERNAL BYPASS CAPACITOR IS RECOMMENDED

RECOMMENDED LAND PATTERN

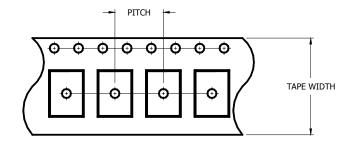
ENVIRONMENTAL/MECHANICAL SPECIFICATION:

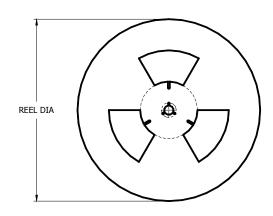
Shock	MIL-STD-883, Meth 2002, Cond B		
Solderability	MIL-STD-883, Meth 2003		
Vibration	MIL-STD-883, Meth 2007, Cond A		
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C		
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A		
Reflow Solder	+260°C for 10 sec max		

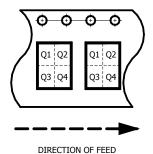
MARKING	DETAIL:

Line 1: MXX.XXX
XX.XXX = Frequency in MHz
Line 2: SYMCCL
S = Internal Code
YM = Date Code (Year/Month)
CC = Crystal Parameters Code
L = Denotes RoHS Compliant

TAPE AND REEL DIMENSIONS:







PITCH	8.0 [.315]
TAPE WIDTH	16.0 [.630]
REEL DIA	330 [13 IN]
QTY PER REEL	1000
PIN 1 ORIENT.	01

NOTES: UNLESS OTHERWISE SPECIFIED

- Applicable Standards / Specifications
 ANSI Y14.5M, Dimensions and Tolerances
 EIA-481-B, 8 mm through 200mm Embossed Carrier Taping and 8 mm and 12 mm Punched Carrier Taping of Surface Mount Components for Automatic Handling.

 2. Dimensions are in millimeters [inches].
- Tolerances are ±0.1 [.004] unless otherwise specified.
 Do not scale drawing.

MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688 Phone: (949) 709-5075, Fax: (949) 709-3536, <u>www.mmdcomp.com</u> Sales@mmdcomp.com

In the event of conflict, the requirements of this specification shall govern.		Revision:		MMUL092209A
Revisions only with customer approval	Page 2 of 2	Release: AWB	Date:	09/30/09