FEATURES

PETERMANN TECHNIK
Time & Frequency Components

- HIGH RELIABILITY FOR LOW COST
- PECL OUTPUT SIGNAL
- COMPLEMENTARY OUTPUT OPTION
- JITTER OPTIMIZED SMALL SMD-OSCILLATOR
- EXCELLENT CLOCK SIGNAL GENERATOR FOR TELECOM AND TRANSMISSION SYSTEMS
- EXTENDED TEMPERATURE RANGE TO -40/+85°C

SMD-OSCILLATOR SERIES			M6337
PACKAGE			Ceramic 7.2 x 5.2 x 1.8 mm³
FREQUENCY RANGE			120.0 ~ 180.0 MHz
FREQUENCY STABILITY		**VS. TEMPERATURE**	+-25 ~ +-100 ppm
		VS. SUPPLY VOLTAGE	+-5 ppm max.
		VS. LOAD	+-1 ppm max.
		VS. AGING	+-5 ppm max. / 1 year
OPERATING TEMPERATURE RANGE			0/+70°C ~ -40/+85°C
STORAGE TEMPERATURE RANGE			-55/+125°C
INPUT		**VOLTAGE**	+3.3 VDC +-5%
		CURRENT	100 mA max.
OUTPUT	**SYMMETRY**	**STANDARD**	40/60% @VDD-1.3V Level
		OPTION	45/55% @VDD-1.3V Level
	RISE AND FALL TIME PECL		1.5 ns max. @20 ~ 80% PECL
	"0" LEVEL	**PECL 3.3 VOLT**	VDD -1.62V max.
	"1" LEVEL		VDD -1.02V min.
	LOAD	**PECL**	50 Ω to VDD -2VDC
PIN CONNECTION			SEE OUTLINE DRAWING
START-UP TIME			10 ms max.
PERIOD JITTER RMS			4 ps typ. @ 155.52 MHz
INTEGRATED JITTER RMS			1 ps max. (integrated 12 kHz ~ 20.0 MHz)
DELIVERY FORM			TAPE & REEL / 1.000 pcs per reel
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION			

PART NUMBERING SYSTEM

EXAMPLE	M6337-25-W-S-E-C-155.520MHz-T

SERIES	M6337
FREQUENCY STABILITY VS. TEMPERATURE	BLANK = 100 PPM
	50 = 50 PPM
	25 = 25 PPM
TEMPERATURE RANGE	BLANK = 0/+70°C
	N = -10/+60°C
	M = -20/+70°C
	W = -40/+85°C
SYMMETRY	BLANK = 40/60%
	S = 45/55%
TRI-STATE CONTROL	BLANK = NOT CONNECT
	E = TRI-STATE
COMPLEMENTARY OUTPUT	BLANK = PIN 5 NOT CONNECTED
	C = COMPLEMENTARY OUTPUT
FREQUENCY	REQUIRED FREQUENCY
DELIVERY FORM	T = TAPE AND REEL

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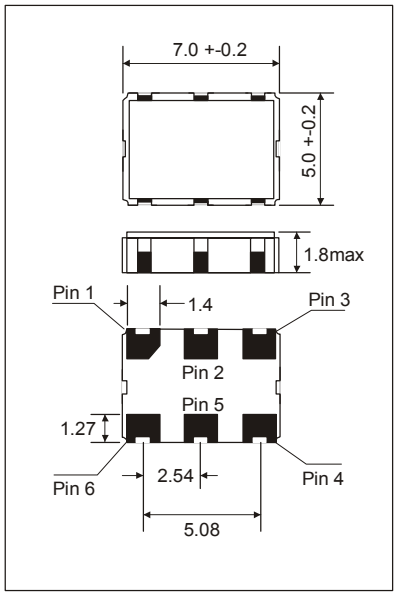
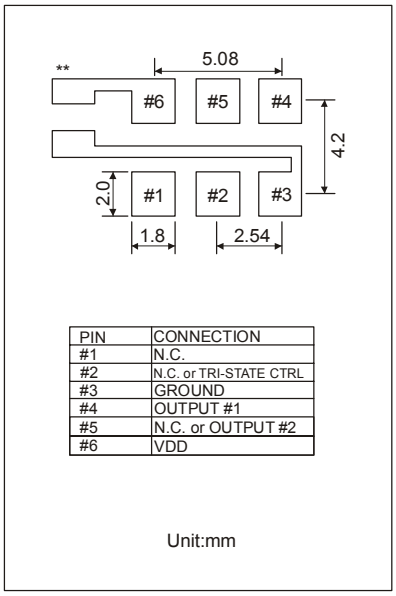
OUTLINE DRAWING OF M6337



RECOMMENDED LAND PATTERN

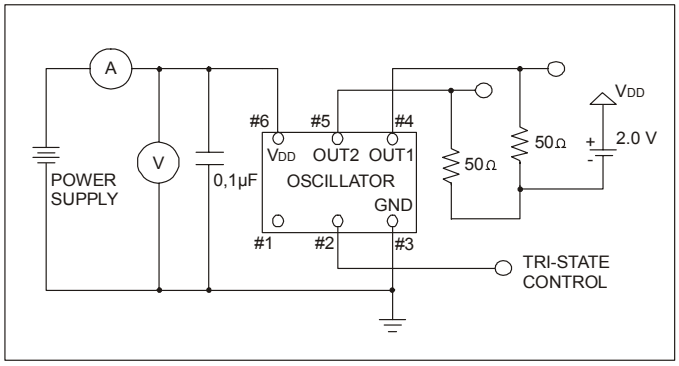


PIN	CONNECTION
#1	N.C.
#2	N.C. or TRI-STATE CTRL
#3	GROUND
#4	OUTPUT #1
#5	N.C. or OUTPUT #2
#6	VDD

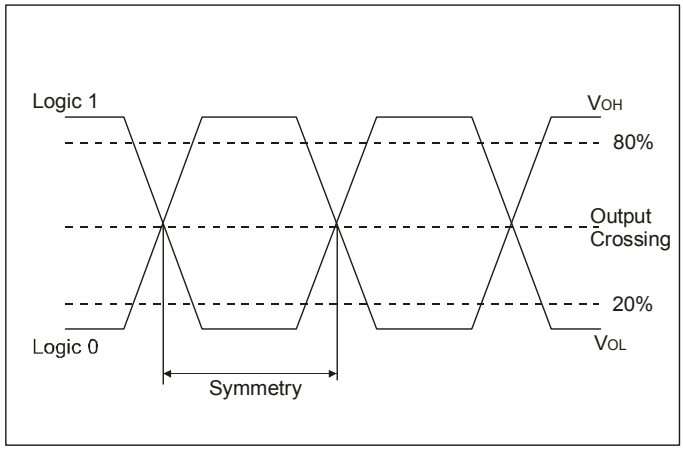
Unit:mm

**A capacitor of value 0.01 µF or greater between VDD and Ground is recommended.

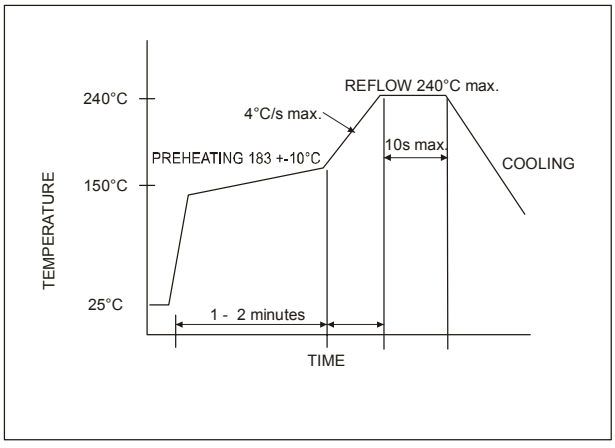
TEST CIRCUIT FOR PECL



PECL OUTPUT WAVE FORM



REFLOW SOLDER PROFILE



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