

FEATURES

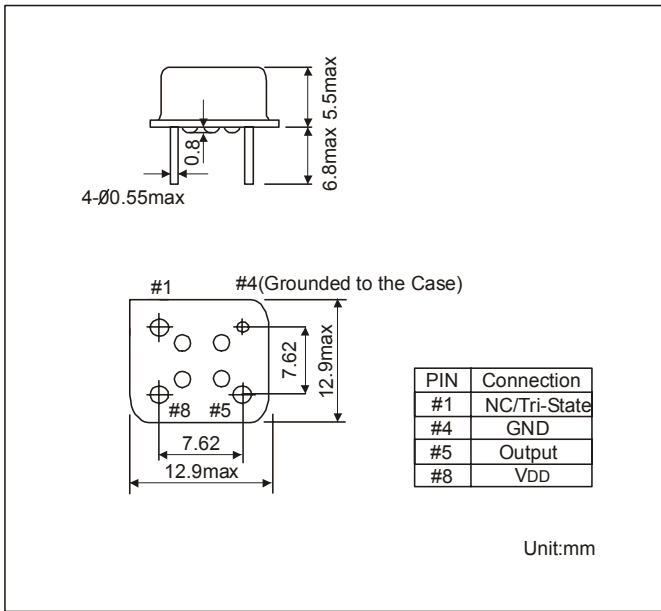
- HIGH RELIABILITY FOR LOW COST
- 1.8 VDC SUPPLY VOLTAGE
- SUITABLE FOR PORTABLE APPLICATIONS
- LOW POWER CONSUMPTION
- JITTER OPTIMIZED SMALL LEADED OSCILLATOR
- EXTENDED TEMPERATURE RANGE TO -40/+85°C

LEADED OSCILLATOR SERIES		M2150	
PACKAGE		DIP 8 12.7 x 12.7 x 5.5 mm	
FREQUENCY RANGE		0.250 ~ 70.0 MHz	
FREQUENCY STABILITY	VS. TEMPERATURE	+15 ~ +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	+1.8 VDC +-10%	
	CURRENT	3 mA max. < 30 MHz / 18 mA max. < 70 MHz	
OUTPUT	SIGNAL		
	SYMMETRY	STANDARD	HCMOS 40/60% @50% VDD
		OPTION	45/55% @50% VDD
	RISE AND FALL TIME		10 nS max. (10% VDD to 90% VDD)
	"0" LEVEL		10% VDD max.
	"1" LEVEL		90% VDD min.
LOAD		15 pF	
START-UP TIME		10 ms max.	
PERIOD JITTER RMS		8 ps max.	
PIN CONNECTION		SEE OUTLINE DRAWING	
DELIVERY FORM		ANTISTATIC TRAYS	
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION			

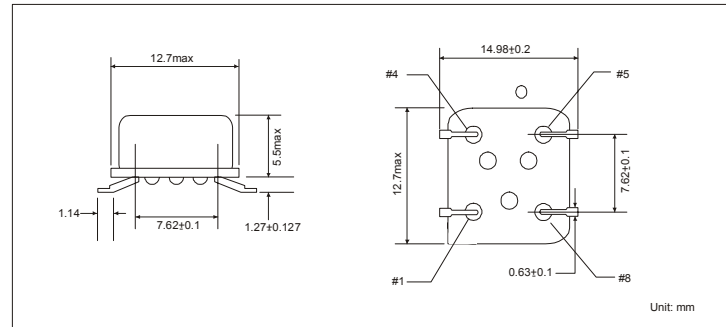
PART NUMBERING SYSTEM

EXAMPLE	M2150-15-W-S-E-70.000MHz-T
SERIES	M2150
FREQUENCY STABILITY VS. TEMPERATURE	BLANK = 100 PPM
	50 = 50 PPM
	25 = 25 PPM
	20 = 20 PPM
	15 = 15 PPM
TEMPERATURE RANGE	BLANK FOR 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
FREQUENCY	REQUIRED FREQUENCY

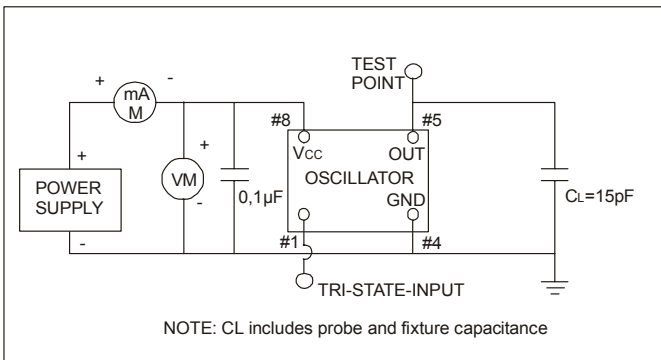
OUTLINE DRAWING OF M2150



OUTLINE DRAWING OF M2150 GULL WING



TEST CIRCUIT FOR HCMOS



HCMOS OUTPUT WAVE FORM

