

FEATURES

PETERMANN

TECHNIK

Time & Frequency Components

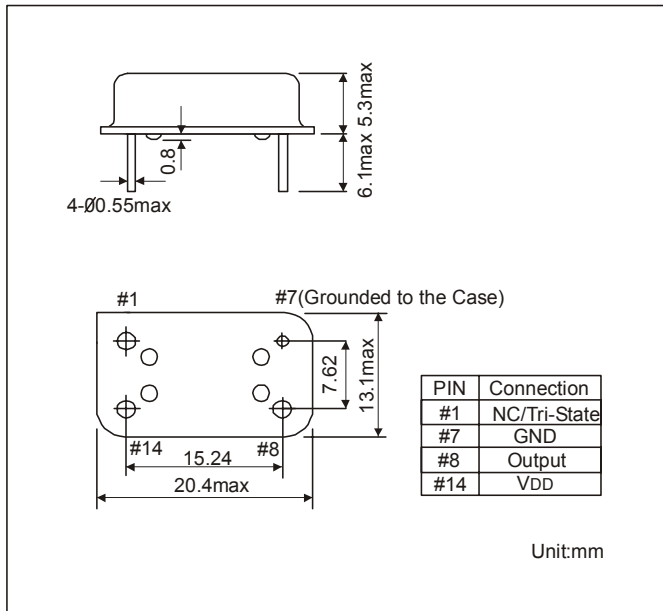
- HIGH RELIABILITY FOR LOW COST
- FREQUENCY STABILITY TO +/-15 PPM
- JITTER OPTIMIZED DIP 14 CLOCK OSCILLATOR
- EXCELLENT CLOCK SIGNAL GENERATOR FOR DSP'S AND CPU'S
- EXTENDED TEMPERATURE RANGE TO -40/+85°C

SERIES		M2302		
PACKAGE		14 PIN DIP		
FREQUENCY RANGE		125.0 ~ 160.0 MHz		
FREQUENCY STABILITY		+/-15 ~ +/-100 ppm		
AGING		+5 ppm after first year		
OPERATING TEMPERATURE RANGE		0/+70°C ~ -40/+85°C		
STORAGE TEMPERATURE RANGE		-55/+125°C		
INPUT		VOLTAGE	+3.3 VDC +/-10%	
		CURRENT	40 mA max.	
OUTPUT		STANDARD	40/60%	
		OPTION	45/55%	
		RISE AND FALL TIME HCMOS		10 ns max. (10% VDD ~ 90% VDD)
		"0" LEVEL	HCMOS 3.3 VOLT	10% VDD max.
		"1" LEVEL		90% VDD min.
LOAD		HCMOS	15 pF	
PIN 1		STANDARD	WITHOUT ENABLE/DISABLE FUNCTION	
		OPTION	WITH ENABLE/DISABLE FUNCTION	
TRISTATE LOGIC TABLE		PIN 1 INPUT	PIN 8 OUTPUT	
		2.0V MIN. OR NOT CONNECTED	OSCILLATION	
		0.8V MAX. OR GND	HIGH IMPEDANCE	
PIN CONNECTION		SEE OUTLINE DRAWINGS		
START-UP TIME		10 ms max.		
PERIOD JITTER RMS		25 ps max.		
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION				

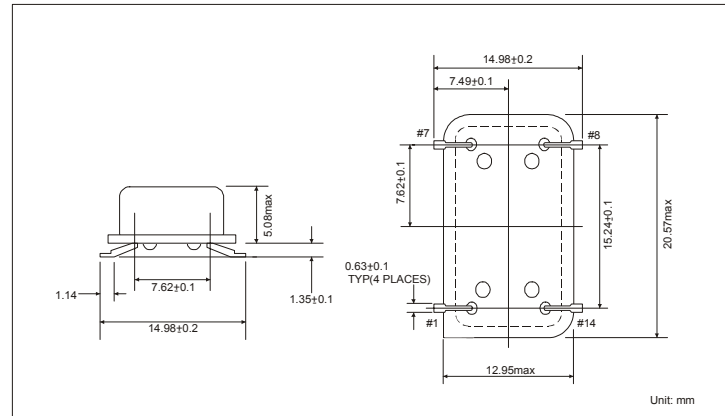
PART NUMBERING SYSTEM

EXAMPLE	M2302-25-W-S-E-G-155.520MHz
SERIES	M2302
FREQUENCY STABILITY	BLANK FOR 100 PPM ANY 50 ~ 15 PPM
TEMPERATURE RANGE	BLANK FOR 0/+70°C N = -10/+60°C M = -20/+70°C W = -40/+85°C
SYMMETRY	BLANK FOR 40/60% S FOR 45/55%
PIN 1 ENABLE/DISABLE	BLANK FOR NO E/D E FOR E/D
PIN CONFIGURATION	BLANK FOR DIP G FOR GULL WING
FREQUENCY	REQUIRED FREQUENCY

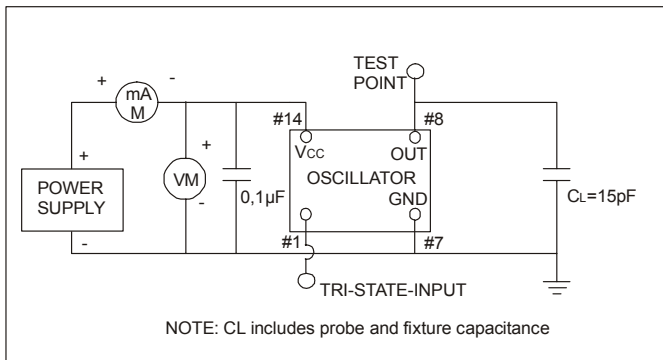
OUTLINE DRAWING OF M2302



OUTLINE DRAWING OF M2302 GULL WING



TEST CIRCUIT FOR HCMOS



HCMOS OUTPUT WAVE FORM

