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			M2300
PACKAGE			14 PIN DIP
FREQUENCY RANGE			500.0 kHz ~ 125.0 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	15 mA max. < 24.0 MHz
			20 mA max. < 50.0 MHz
			30 mA max. < 80.0 MHz
			40 mA max. < 125 MHz
OUTPUT	**SYMMETRY**	**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			8 ps max.
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION			

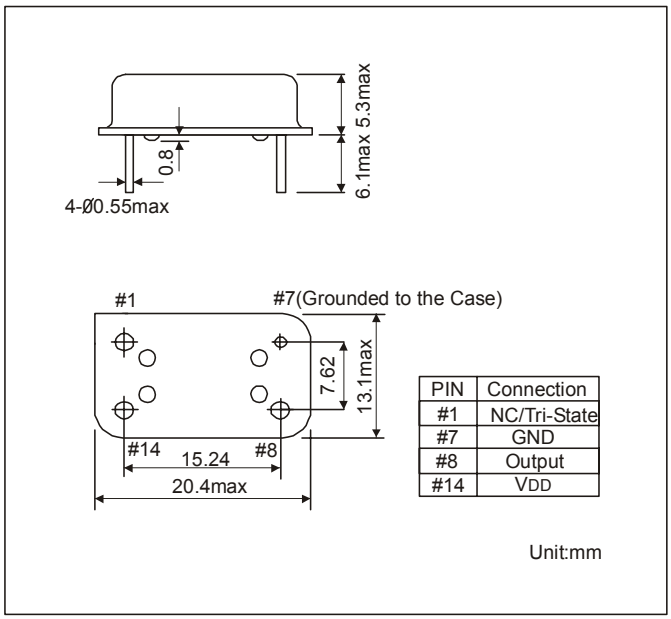
PART NUMBERING SYSTEM

EXAMPLE	M2300-25-W-S-E-G-125.0MHz

SERIES	M2300
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

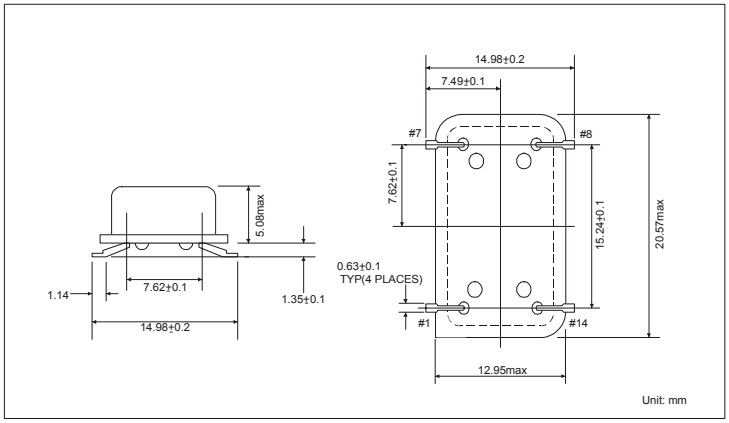
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OUTLINE DRAWING OF M2300

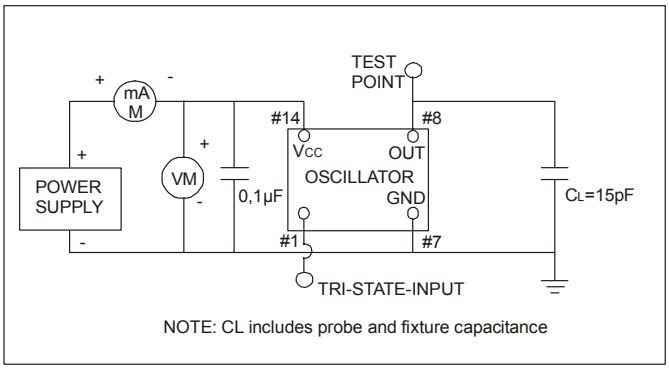


PIN	Connection
#1	NC/Tri-State
#7	GND
#8	Output
#14	VDD

OUTLINE DRAWING OF M2300 GULL WING



TEST CIRCUIT FOR HCMOS



HCMOS OUTPUT WAVE FORM

