

FEATURES

PETERMANN



TECHNIK

Time & Frequency Components

- FUNDAMENTAL TECHNIQUE FOR LOW JITTER
- HIGH RELIABILITY FOR LOW COST
- PECL OUTPUT SIGNAL
- COMPLEMENTARY OUTPUT OPTION
- JITTER OPTIMIZED DIP 14 PECL CLOCK OSCILLATOR
- EXCELLENT CLOCK SIGNAL GENERATOR FOR TELECOM AND TRANSMISSION SYSTEMS
- EXTENDED TEMPERATURE RANGE TO -40/+85°C

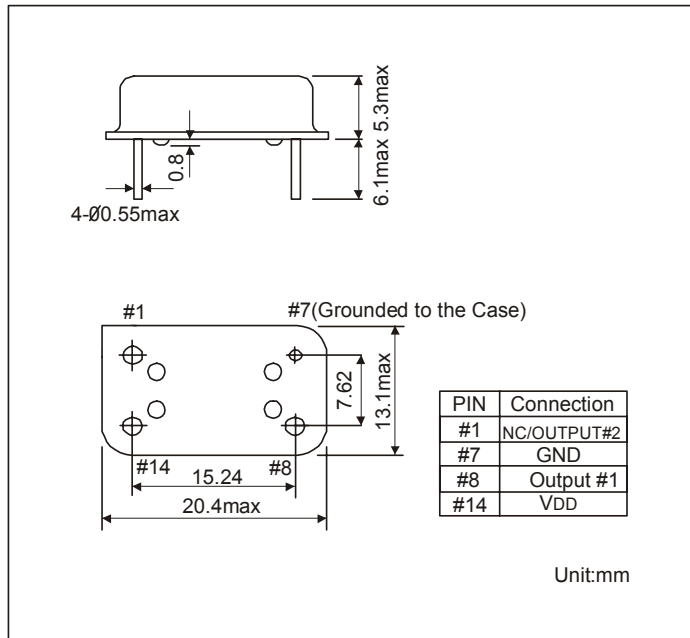
SERIES		M6300
PACKAGE		14 PIN DIP
FREQUENCY RANGE		120.0 ~ 200.0 MHz FUNDAMENTAL
FREQUENCY STABILITY		+50 ~ +100 ppm
AGING		+5 ppm after first year
OPERATING TEMPERATURE RANGE		0/+70°C ~ -40/+85°C
STORAGE TEMPERATURE RANGE		-55/+125°C
INPUT		VOLTAGE CURRENT
		+3.3 VDC +5% 100 mA max.
OUTPUT	SYMMETRY	STANDARD
		OPTION
	RISE AND FALL TIME PECL	
	"0" LEVEL	PECL 3.3 VOLT
	"1" LEVEL	
LOAD	PECL	
		40/60% (VDD -1.3 V LEVEL) 45/55% (VDD -1.3V LEVEL) 1.5 ns max. (20 ~ 80% PECL) VDD -1.62V max. VDD -1.02V min. 50 Ω to VDD -2VDC
PIN CONNECTION		SEE OUTLINE DRAWINGS
START-UP TIME		10 ms max.
PERIOD JITTER RMS		4 ps typ. @ 155.520 MHz
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION		

PART NUMBERING SYSTEM

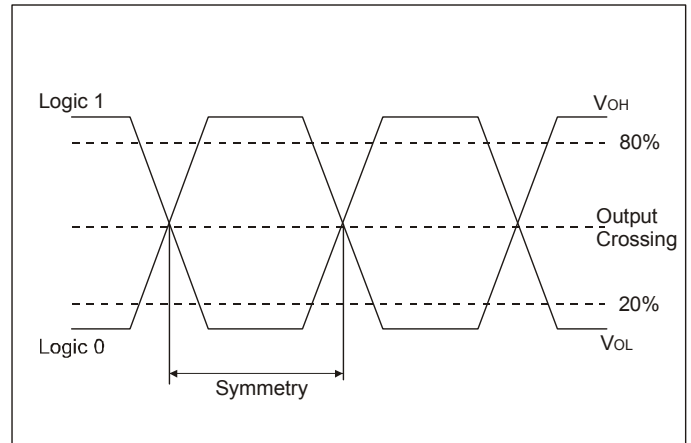
EXAMPLE	M6300-50-W-S-C-155.520MHz
SERIES	M6300
FREQUENCY STABILITY	BLANK FOR 100 PPM
	50 FOR 50 PPM
TEMPERATURE RANGE	BLANK FOR 0/+70°C
	N = -10/+60°C
	M = -20/+70°C
	W = -40/+85°C
SYMMETRY	BLANK FOR 40/60%
	S FOR 45/55%
COMPLEMENTARY	BLANK PIN 1 NOT CONNECTED
OUTPUT	C FOR COMPLEMENTARY OUTPUT
FREQUENCY	REQUIRED FREQUENCY

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OUTLINE DRAWING OF M6300



PECL OUTPUT WAVE FORM



TEST CIRCUIT FOR PECL

