

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		M6307	
PACKAGE		Ceramic 7.2 x 5.2 x 1.8 mm ³	
FREQUENCY RANGE		48.0 ~ 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		10 ps typ. @ 155.52 MHz	
DELIVERY FORM		TAPE & REEL / 1.000 pcs per reel	
<u>OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION</u>			

PART NUMBERING SYSTEM

EXAMPLE	M6307-25-W-S-E-C-155.520MHz-T
SERIES	M6307
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

PETERMANN-TECHNIK | Amselweg 8 | D-86916 Kaufering
 Fon: 00 49 (0) 81 91 / 30 53 95 | Fax: 00 49 (0) 81 91 / 30 53 97
<http://www.petermann-technik.de> | info@petermann-technik.de

