

FEATURES

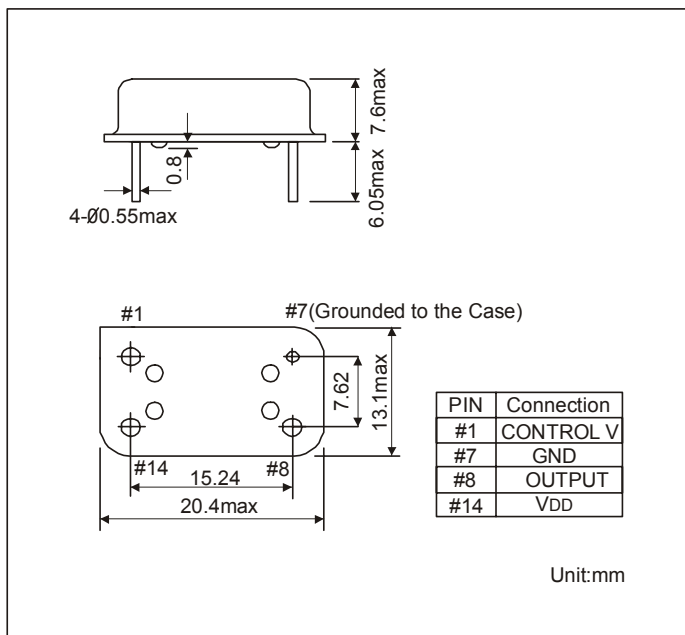
- HIGH RELIABILITY FOR LOW COST
- OPTIMISED FOR SDH/SONET APPLICATIONS
- FREQUENCIES UP TO 200.0 MHz WITH FUNDAMENTAL CRYSTALS IN INVERTED MESA TECHNOLOGY
- EXCELLENT JITTER PERFORMANCE
- EXTENDED TEMPERATURE RANGE UP TO -40/+85°C AVAILABLE
- APPLICATIONS: FIBER CHANEL, GIGABIT ETHERNET, SDH/SONET, BROADBAND, TELECOM, ETC.

SERIES			M7300
PACKAGE			DIP 14 PACKAGE
FREQUENCY RANGE			120.0 ~ 200.0 MHz FUNDAMENTAL TECHNOLOGY
		VS. TEMPERATURE	+50 ~ +-100 ppm
		VS. SUPPLY VOLTAGE	+5 ppm max.
		VS. LOAD	+1 ppm max.
		VS. AGING	+5 ppm max. / first year
OPERATING TEMPERATURE RANGE			-10/+60°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%
		OPTION	45/55%
	SIGNAL		PECL
	RISE AND FALL TIME		1.5 ns max. (20% TO 80% PECL)
	"0" LEVEL	FOR PECL	VDD-1.62 V max.
	"1" LEVEL		VDD-1.02 V min.
	LOAD		50 Ω to VDD-2VDC
START-UP TIME			10 mS max.
INPUT IMPEDANCE			50 kΩ min.
PERIOD JITTER RMS			4 ps typ. @ 155.52MHz
CONTROL VOLTAGE RANGE STANDARD			0 ~ 3.3 VDC
CENTER VOLTAGE			1.65 VDC
PULLABILITY			+50 ppm min.
LINEARITY			10% max.
SLOPE			POSITIVE
PIN CONNECTION		PIN 1	CONTROL VOLTAGE
		PIN 7	CASE GROUND
		PIN 8	OUTPUT
		PIN 14	SUPPLY VOLTAGE
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION			

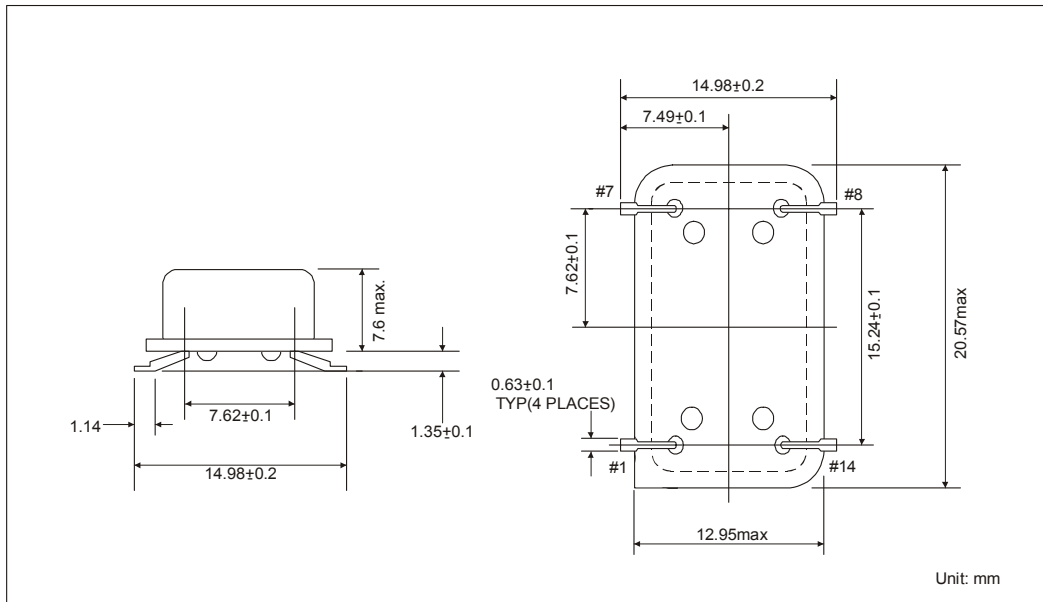
PART NUMBERING GUIDE

EXAMPLE	M7300-50-W-S-V-50-155.52MHz
SERIES	M7300
STABILITY VS. TEMPERATURE	BLANK = ± 100 ppm
	50 = ± 50 ppm
	25 = ± 25 ppm
	20 = ± 20 ppm
	15 = ± 15 ppm
	X = OTHER VALUE - PLEASE INDICATE YOUR REQUIRED VALUE
TEMPERATURE RANGE	BLANK = $0/+70^{\circ}\text{C}$
	N = $-10/+60^{\circ}\text{C}$
	M = $-20/+70^{\circ}\text{C}$
	W = $-40/+85^{\circ}\text{C}$
	X = OTHER VALUE - PLEASE INDICATE YOUR REQUIRED VALUE
SYMMETRY	BLANK = 40/60%
	S = 45/55%
CONTROL VOLTAGE	V = 0 ~ 3.3 V
PULLING RANGE	BLANK = ± 50 ppm min.
	IF YOU REQUIRE ANOTHER VALUE PLEASE INDICATE THE REQUIRED VALUE
FREQUENCY	FREQUENCY IN MHz
SMD-GULLWING PACKAGE	G

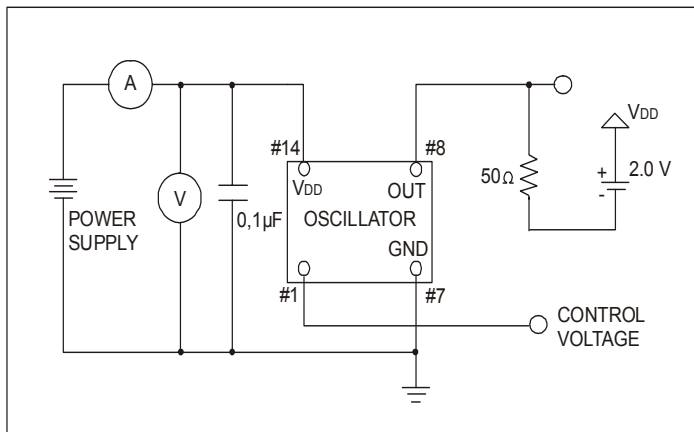
OUTLINE DRAWING OF M7300



OUTLINE DRAWING OF SMD-GULLWING PACKAGE



TEST CIRCUIT FOR PECL TYPE M7300



OUTPUT WAVE FORM OF PECL

