




Data Sheet



Product Category: VCXO

Series Number	Package	Description	Last Modified
553	14 Pin Dip	PECL Output	Jan. 01 2007

FEATURES

- Wide voltage control range
- Wave form symmetry of 40/60%
- PECL output
- Industry standard Mesa UM-1 Package
- RoHs / Lead Free compliant 

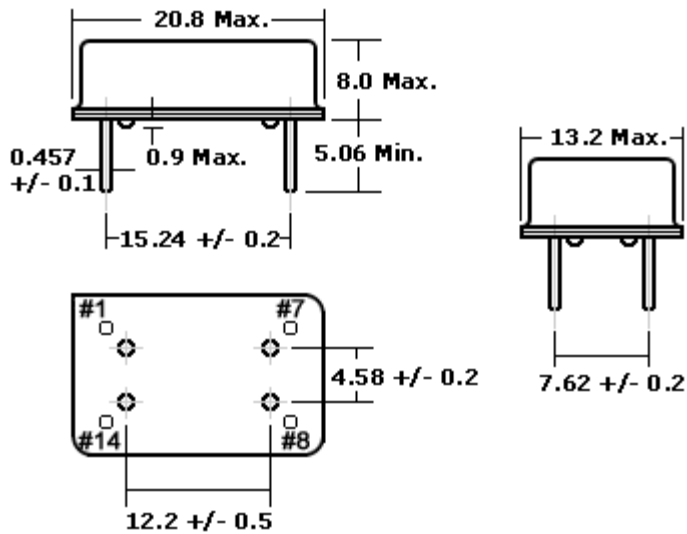


OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CHARACTERISTICS		UNITS
Output Logic	-	Positive ECL Square Wave (PECL)		-
Input Voltage (VDD)	-	3.3 ±10%	5.0 ±10%	VDC
Frequency Range (f_O)	-	19.440 ~ 180.0 (Inverted Mesa UM-1)		MHz
Operating Temperature (T_{OPR})	-	0 ~ +70 (Std.) / -40 ~ 85 (Option)		°C
Storage Temperature (T_{STG})	-	-55 ~ +125		°C
Absolute Pull Range (APR)	-	±30 (Std.), ±50, ±75, ±100 max.		PPM
	(a) Frequency Tolerance	Inclusive of Overall Stability		-
	(b) Temperature Stability	Inclusive of Overall Stability (Operating Temperature)		-
	(c) Input Voltage Stability	Inclusive of Overall Stability (VDD ±5%)		-
	(d) Load Stability	Inclusive of Overall Stability (RL ±5%)		-
Input Current (I_{DD})	-	80 max.	120 max.	mA
Aging	@ 25°C	±1 max.		PPM/Y
Rise Time (T_R)	20% to 80% of Waveform	2 max.		nS
Fall Time (T_F)	20% to 80% of Waveform	2 max.		nS
External Control Voltage (Vc)	-	0.3 ~ 3.0	0.5 ~ 4.5	VDC
Output Voltage High "1" VOH	PECL	VDD - 1.025 min.		VDC
Output Voltage Low "0" VOL	PECL	VDD - 1.620 max.		VDC
Load	-	50		Ohms
Duty Cycle	50% of Waveform	50 ±10 (50% of Waveform)		%
Start-Up Time (T_S)	-	10 max.		mS
Jitter	RMS	3.5 max.		ps
Linearity	-	±20 (Std.) / Custom Spec. Avail.		%



PACKAGE DIMENSIONS (mm)



PIN CONNECTIONS	
#1	Voltage Control
#7	GND
#8	OUTPUT
#14	Vcc

PART NUMBER GUIDE

Series Number	Frequency	Voltage Supply Option	Operating Temp. (°C)	Duty Cycle	Absolute Pulling Range	Linearity
553	- 120.0 M	- 3	N	- T	P1	20
Oscilent VCXO PECL Mesa UM-1	Enter your desired frequency e.g. 120.0M for 120.000 MHz	5 = 5VDC 3 = 3.3VDC	Blank* = 0~+70 N = -40~+85	Blank* = 50±10% T = 50±5%	P1 = 50PPM P2 = 100PPM P4 = 30PPM P5 = 75PPM	20 = 20% 10 = 10%
<p>NOTE: - Deviations on all parameters available. Please consult Oscilent for details.</p> <p>DEFINITIONS: - Click on the characteristic names above for definitions of that particular characteristic.</p> <p>*STANDARDS: - "Blank" part number selections indicate standard variables for that particular characteristic.</p> <p>PACKAGING: - Standard tube packaging, add -TR for Tape/Reel. Click here for tape/reel specifications</p>						

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