







Product Category: VCXO

Series Number	Series Number Package		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

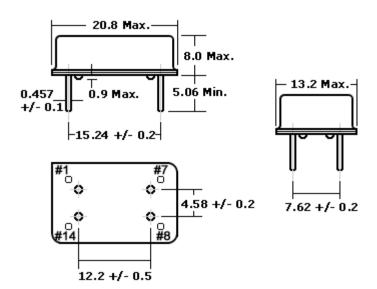




OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CHARACTERISTICS			
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	orm 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		Blank* = 0~+70 N = -40~+85	T = 50±5%	P1 = 50PPM P2 = 100PPM P4 = 30PPM P5 = 75PPM	20 = 20% 10 = 10%

NOTE: - Deviations on all parameters available. Please consult Oscilent for details.

DEFINITIONS: - Click on the characteristic names above for definitions of that particular characteristic.

*STANDARDS: - "Blank" part number selections indicate standard variables for that particular characteristic.

PACKAGING: - Standard tube packaging, add -TR for Tape/Reel. Click here for tape/reel specifications

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Series No.: 553

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