



Data Sheet

telephone  
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BACK

Product Category: SMD Oscillators

Series Number	Package	Description	Last Modified
495	5 x 7 Ceramic 6 Pad	PECL Output	Nov. 15 2007

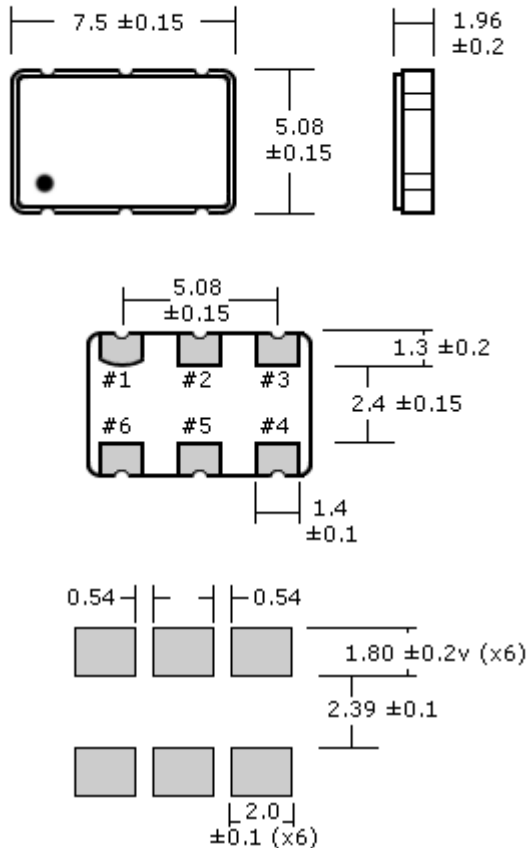
## FEATURES

- Wave form symmetry of 40/60%
- PECL output
- Industry standard 6 Pad 5 x 7 Ceramic SMD Package
- Low Jitter 1.0 ps max.
- 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 <sub>O</sub> )	-	19.440 ~ 180.0 (Fund, Third, Fifth / UM-1)		MHz
Operating Temperature (T <sub>OPR</sub> )	-	0 ~ +70 (Std.) / -40 ~ 85 (Option)		°C
Storage Temperature (T <sub>STG</sub> )	-	-55 ~ +125		°C
Overall Frequency Stability	-	±50, ±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 ±10%)		-
	(d) Load Stability	Inclusive of Overall Stability (RL ±5%)		-
Input Current (I <sub>DD</sub> )	-	80 max.	120 max.	mA
Aging	@ 25°C	±3 max.		PPM/Y
Rise Time (T <sub>R</sub> )	20% to 80% of Waveform	2 max.		nS
Fall Time (T <sub>F</sub> )	20% to 80% of Waveform	2 max.		nS
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 (Std.) / 50 ±5 (Option)		%
Start-Up Time (T <sub>S</sub> )	-	10 max.		mS
Jitter	FJ 12KHz to 20MHz bandwidth	1.0 max.		ps

**PACKAGE DIMENSIONS (mm)**

Suggested Solder Pad Layout

**PIN CONNECTIONS**

#1	Tristate Enable High or No Connection (TS1)
#2	Tristate Enable High or No Connection (TS)
#3	Ground
#4	Output
#5	Complimentary Output
#6	Vdd

**PART NUMBER GUIDE**

Series Number	Frequency	Voltage Supply Option	Frequency Tolerance & Stability (max.)	Operating Temp. (°C)	Duty Cycle	Pin 2 Connection
<b>495</b>	<b>- 28.0 M</b>	<b>- 3</b>	<b>E</b>	<b>N</b>	<b>- T</b>	<b>TS</b>
Oscilent SMD Oscillators	Enter your freq. e.g. <b>28.0M = 28.00 MHz</b>	5 = 5VDC 3 = 3.3VDC	D = ±100 PPM E = ±50 PPM	Blank* = 0~+70 N = -40~+85	Blank* = 50±10% T = -50±5%	TS1 = Pin # 1 TS = Pin # 2

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

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

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

**PACKAGING:** - Add **-TR** for Tape/Reel. Click [here](#) for tape/reel specifications

**Oscilent Corporation** - CALL **949.252.0522**

**Series No.:** 495

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