



Data Sheet



Product Category: SMD Oscillators

Series Number	Package	Description	Last Modified
434	5 x 3.2 SMD Ceramic	HCMOS / TTL Output	Jan. 01 2007

FEATURES

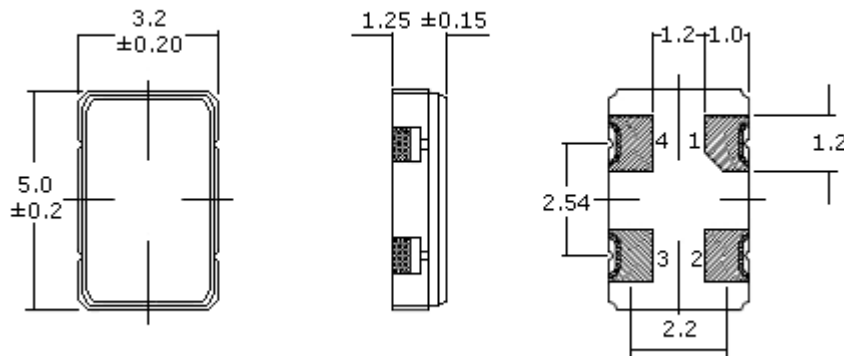
- Ultra Low Jitter 1pS
- Low power consumption
- Tape and Reel
- Miniature profile 5 x 3.2 x 1.0
- 3.3V or 5.0V optional
- RoHs / Lead Free compliant



OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CHARACTERISTICS		UNITS
Output Logic	-	HCMOS / TTL Output		-
Input Voltage (Vdd)	-	3.3 ±10%	5.0 ±10%	VDC
Frequency Range (f_O)	-	0.450 ~ 100.00		MHz
Operating Temperature (T_{OPR})	-	0 ~ +70 Std. (Ext Temp Avail. See Table Below)		°C
Storage Temperature (T_{STG})	-	-55 ~ +125		°C
Frequency Stability	a + b + c + d	±20, ±25, ±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 ±5%)		-
	(d) Load Stability	Inclusive of Overall Stability (RL ±5%)		-
Current Consumption	-	10 ~ 45 (35) max.	15 ~ 85 (50) max.	mA
Aging	@ 25°C	±5 max.		ppm/Y
Rise Time (T_R) / Fall Time (T_F)	≤ 23.999 MHz	10 max.		nS
	24.00 ~ 70.00 MHz	6 max.		
	70.001 ~ 100.00 MHz	4 max.		
PIN 1 Tri-State Input Voltage (Option)	-	Vh (Pin 1) No Connection : Enables Output		-
	-	Vh (Vih) ≥ 2.2 Vdc : Enables Output		
	-	VI (Vil) ≤ 0.8 Vdc : Disables Output (High Impedance)		
Output Voltage High "1" VOH	TTL Load	2.4 min.		VDC
	HCMOS Load	Vdd * 0.9 min.		
Output Voltage Low "0" VOL	TTL Load	0.4 max.		VDC
	HCMOS Load	Vdd * 0.1 min.		
Duty Cycle	-	50 ±10 (Std.) / 50 ±5 (Option)		%
Start-Up Time (T_S)	-	10 max.		mS
Jitter	(12KHz to 20MHz)	RMS: ±1 max.		ps

PIN CONNECTIONS

PACKAGE DIMENSIONS (mm)

#1	No Connection or Tri-State Enable High
#2	Case Ground
#3	Output
#4	Vdd

PART NUMBER GUIDE

Series Number	Frequency	Voltage Supply Option	Frequency Tolerance & Stability (max.)	Operating Temp. (°C)	Duty Cycle	Pin 1 Connection
434	- 12.0M	- 3	E	N	- T	TS
Oscilent SMD Oscillators	Enter your desired frequency e.g. 12.0M = 12.000MHz	5 = 5VDC 3 = 3.3VDC	D = ±100 ppm E = ±50 ppm F = ±25 ppm G = ±20 ppm	Blank* = 0~+70 C = -10~+70 D = -20~+70 N = -40~+85	Blank* = 50±10% T = -50±5%	NC = No Connection TS = Tri-State Enable High
<p>NOTE: - Deviations on all parameters available. Please consult Oscilent for details.</p> <p>DEFINITIONS: - Click on the characteristic names above, for definitions of the particular characteristic.</p> <p>*STANDARDS: - "Blank" part number selections, indicate standard variables for the particular characteristic.</p> <p>PACKAGING: - Add -TR for Tape/Reel. Click here for tape/reel specifications</p>						

Oscilent Corporation - CALL **949.252.0522**

Series No.: 434

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