




Data Sheet



Product Category: SMD Oscillators

Series Number	Package	Description	Last Modified
435	3.2 x 2.5 SMD Ceramic	HCMOS Output	Jan. 05 2007

FEATURES

- Ultra Small Package SMD Oscillator
- Tape and Reel
- Miniature profile 3.2 x 2.5 x 1.2
- 3.3V or 2.5V optional
- RoHs / Lead Free compliant 

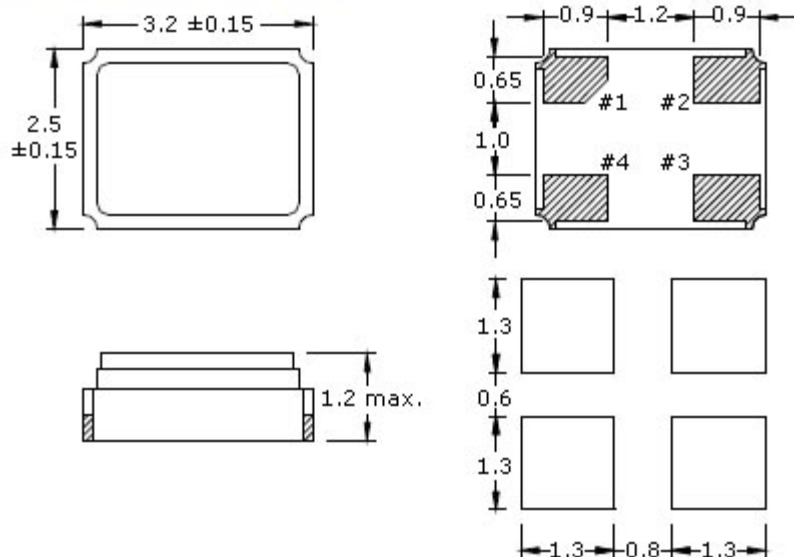


OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CHARACTERISTICS		UNITS
Power Supply Voltage	-	3.3 ±10%	2.5 ±10%	V
Frequency Range (f_O)	-	1.544 ~ 80.000		MHz
Operating Temperature (T_{OPR})	-	0 ~ +70 Std. (Ext Temp Avail. See Table Below)		°C
Storage Temperature (T_{STG})	-	-55 ~ +125		°C
Frequency Stability	All Conditions	±25, ±50, ±100 max.		ppm
Current Consumption	1.544 ~ 9.999 MHz	8 max.	7 max.	mA
	10.000 ~ 34.999 MHz	10 max.	8 max.	
	35.000 ~ 49.999 MHz	25 max.	20 max.	
	50.000 ~ 80.000 MHz	35 max.	30 max.	
Aging	@ 25°C ±3°C	±5 max.		ppm
Rise Time	10 ~ 90%VDD	7 max.	6 max.	ns
Fall Time	90 ~ 10%VDD	7 max.	6 max.	ns
PIN 1 Tri-State Function	Pin 1 = H or open	Output active at Pin 3		-
	Pin 1 = L	High Impedance at Pin 3		
Output Voltage	-	90 min.		%VDD
	-	10 max.		
Output Load	-	15 max.		pF
Output Symmetry	at 1/2 VDD	50 ±10 (Std.) / 50 ±5 (Option)		%
Start-Up Time (Ts)	-	10 max.		mS

PIN CONNECTIONS	
#1	Tri-State
#2	Case Ground
#3	Output

PACKAGE DIMENSIONS (mm)



#4	Vdd
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PART NUMBER GUIDE

Series Number	Frequency	Voltage Supply Option	Frequency Tolerance & Stability (max.)	Operating Temp. (°C)	Duty Cycle	Pin 1 Connection
435	- 12.0M	- 3	E	N	- T	TS
Oscilent SMD Oscillator	Enter your desired frequency e.g. 12.0M = 12.000MHz	3 = 3.3VDC 6 = 2.5VDC	D = ± 100 ppm E = ± 50 ppm F = ± 25 ppm	Blank* = $0 \sim +70$ C = $-10 \sim +70$ D = $-20 \sim +70$ N = $-40 \sim +85$	Blank* = $50 \pm 10\%$ T = $-50 \pm 5\%$	TS = Tri-State Enable High
<p>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</p>						

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