

3.3V HCMOS Automotive Grade SMD Oscillator



Model: FA530 SERIES

RoHS Compliant / Pb Free / REACH Compliant

Rev. 2/27/2012

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Need a
Sample®

FEATURES

- AEC-Q200 Qualified
- TS-16949 Certified
- Temperature range from -40°C ~ +125°C
- Seam Seal
- Tape and Reel (1,000 pcs. STD)

• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability ¹	Operating Temperature (°C)	Frequency Range (MHz)
475B-Frequency-xxxxx	FA530R	±100PPM	-40 ~ +85	2.000 ~ 135.000
474B-Frequency-xxxxx	FA530	±100PPM	-40 ~ +125	2.000 ~ 48.000
550B-Frequency-xxxxx	FA535R	±50PPM	-40 ~ +85	2.000 ~ 135.000
476B-Frequency-xxxxx	FA535	±50PPM	-40 ~ +125	2.000 ~ 48.000
636B-Frequency-xxxxx	FA536R	±25PPM	-40 ~ +85	2.000 ~ 135.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	see chart above
Storage Temperature Range (T _{STG})	-55°C ~ +150°C
Supply Voltage (V _{DD})	3.3V ±10%
Input Current (I _{DD})	
2.000 ~ 19.999999 MHz	7mA
20.000 ~ 31.999999 MHz	12mA
32.000 ~ 49.999999 MHz	20mA
50.000 ~ 79.999999 MHz	25mA
80.000 ~ 99.999999 MHz	30mA
100.000 ~ 135.000 MHz	40mA
Output Symmetry (50% V _{DD})	40% ~ 60% ³
Rise/Fall Time (10% ~ 90% V _{DD} LEVELS)	
2.000 ~ 49.999999 MHz	10nS
50.000 ~ 79.999999 MHz	8nS
80.000 ~ 99.999999 MHz	5nS
100.000 ~ 135.000 MHz	4nS
Output Voltage (V _{OL})	10% V _{DD}
(V _{OH})	90% V _{DD} Min
Output Current (I _{OL})	2mA Min
(I _{OH})	-2mA Min
Output Load (HCMOS)	15pF
Standby Current (I _{ST})	10μA
Start-up Time (T _s)	10mS
Output Disable Time ²	100nS
Output Enable Time ²	10mS
Aging (per year @25°C)	±5 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

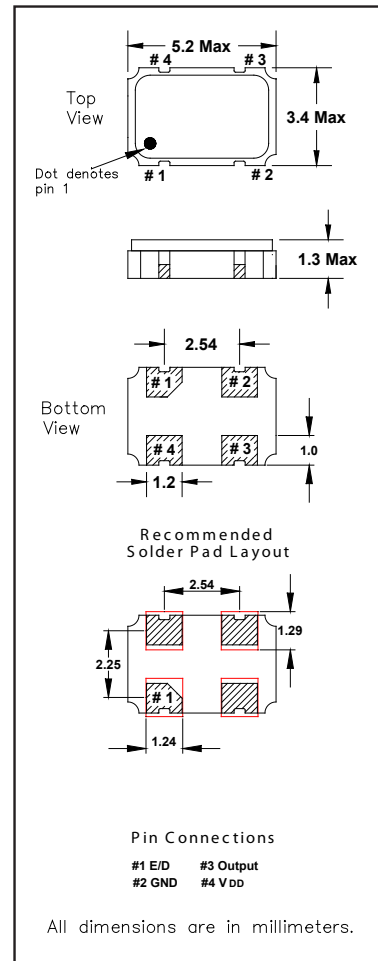
¹ Inclusive of 25°C tolerance, operating temperature range.

² An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

³ 45/55 symmetry available on an inquiry basis.

Notes: A 0.01μF bypass capacitor should be placed between V_{DD} (Pin 4) and GND (Pin 2) to minimize power supply line noise.

Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary. All specifications subject to change without notice.



• ENABLE / DISABLE FUNCTION

(Pin 1)	OUTPUT (Pin 3)
OPEN ²	ACTIVE
'1' Level V _{IH} ≥ 80% V _{DD}	ACTIVE
'0' Level V _{IL} ≤ 20% V _{DD}	High Z

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• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
FA530 Series	Ø1.5	4.0	8.0	5.5	12.0	1.5	1,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
FA530 Series	2.0	Ø13	Ø21	Ø62	Ø180	13.5	2.0

