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 -40ºC ~ +125ºC
- Seam Seal
- Tape and Reel (1,000 pcs. STD)

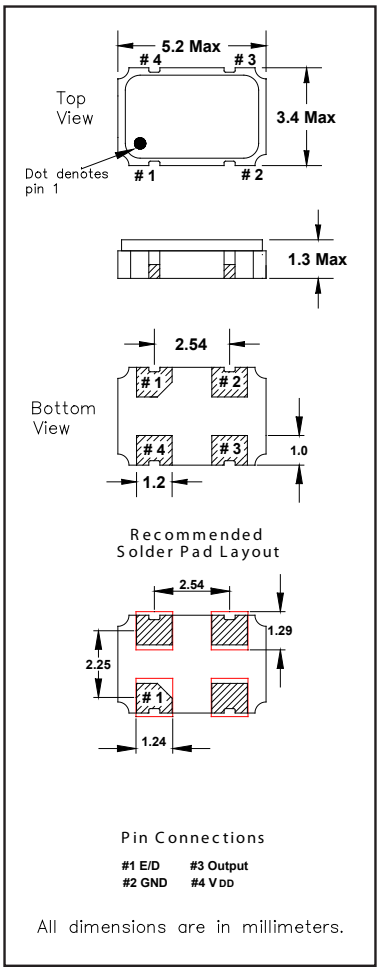
• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability[1]	Operating Temperature (ºC)	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 (Tstg)	-55ºC ~ +150ºC
Supply Voltage (Vdd)	3.3V ±10%
Input Current (Idd)	
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% Vdd)	40% ~ 60%[3]
Rise/Fall Time (10% ~ 90% Vdd 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 (Vol)	10% Vdd
(Voh)	90% Vdd Min
Output Current (Iol)	2mA Min
(Ioh)	-2mA Min
Output Load (HCMOS)	15pF
Standby Current (Ist)	10µA
Start-up Time (Ts)	10mS
Output Disable Time [2]	100nS
Output Enable Time [2]	10mS
Aging (per year @25C)	±5 PPM
Maximum Soldering Temp / Time	260ºC / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

[1] Inclusive of 25ºC 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 Vdd (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 VIH ≥ 80% Vdd	ACTIVE
'0' Level VIL ≤ 20% Vdd	High Z

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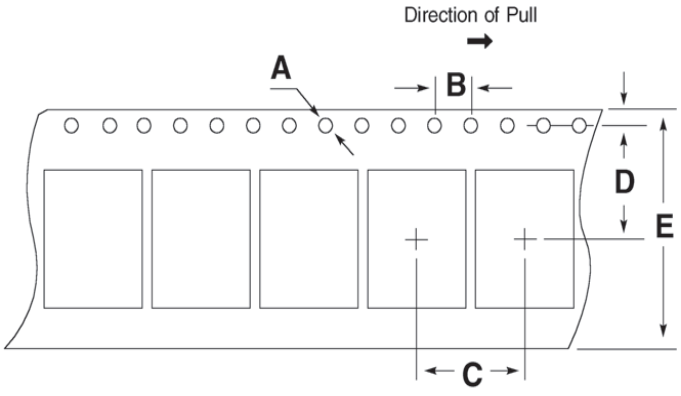
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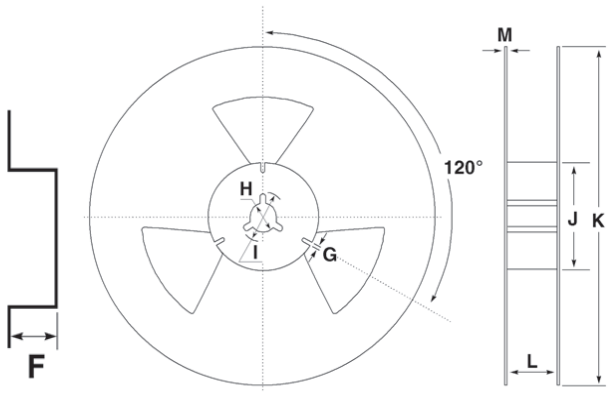
• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
FA530 Series	∅1.5	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	∅13	∅21	∅62	∅180	13.5	2.0





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