

1.8V HCMOS Automotive Grade SMD Oscillator



Model: FA510 SERIES

RoHS Compliant / Pb Free / REACH Compliant

Rev. 2/27/2012

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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)
552A-Frequency-xxxxx	FA510R	±100PPM	-40 ~ +85	2.000 ~ 48.000
551A-Frequency-xxxxx	FA510	±100PPM	-40 ~ +125	2.000 ~ 48.000
554A-Frequency-xxxxx	FA515R	±50PPM	-40 ~ +85	2.000 ~ 48.000
553A-Frequency-xxxxx	FA515	±50PPM	-40 ~ +125	2.000 ~ 48.000
556A-Frequency-xxxxx	FA516R	±25PPM	-40 ~ +85	2.000 ~ 48.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	2.000 ~ 48.000 MHz
Storage Temperature Range (TSTG)	-55°C ~ +150°C
Supply Voltage (VDD)	1.8V ± 5%
Input Current (IDD)	
2.000 ~ 9.999999 MHz	5 mA
10.000 ~ 31.999999 MHz	6 mA
32.000 ~ 48.000 MHz	15 mA
Output Symmetry (50% VDD)	40% ~ 60% ³
Rise/Fall Time (10% ~ 90% VDD LEVELS)	6.5nS
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 @25°C)	±5 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

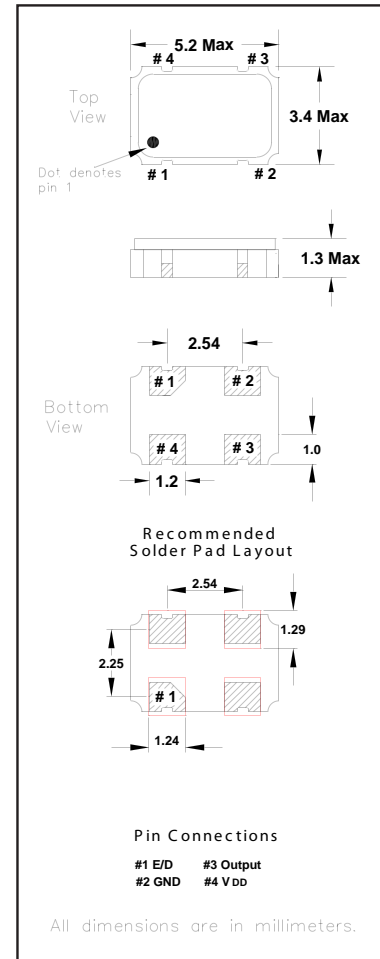
¹ Inclusive of 25°C tolerance, operating temperature range.

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 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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• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
FA510 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
FA510 Series	2.0	∅13	∅21	∅62	∅180	13.5	2.0

