2.85V HCMOS SMD OSCILLATOR WITH STANDBY

MODEL: F4300 SERIES

FEATURES

- 2.85V Operation
- HCMOS Output
- Standby Function
- Tape and Reel (2,000 pcs. STD)

OPTIONS

- 1.05mm Height Max

Learn more about:
Part Marking Identification
Tape and Reel Specification
Mechanical Specification
Internet required

Quote it!

• PART NUMBER SELECTION

Learn More - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
487-Frequency-xxxxx	F4300	±100PPM	-10 ~ +70	1.544 ~ 80.000
604-Frequency-xxxxx	F4300R	±100PPM	-40 ~ +85	1.544 ~ 80.000
488-Frequency-xxxxx	F4305	±50PPM	-10 ~ +70	1.544 ~ 80.000
605-Frequency-xxxxx	F4305R	±50PPM	-40 ~ +85	1.544 ~ 80.000
473-Frequency-xxxxx	F4306	±25PPM	-10 ~ +70	1.544 ~ 80.000
606-Frequency-xxxxx	F4306R	±25PPM*	-40 ~ +85	1.544 ~ 80.000
489-Frequency-xxxxx	F4308	±20PPM*	-10 ~ +70	1.544 ~ 80.000

• ELECTRICAL CHARACTERISTICS

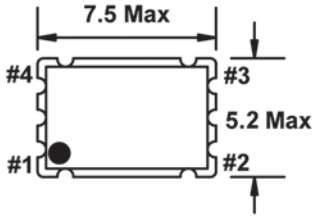
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.544 ~ 80.000 MHz
Temperature Range (Tstg)	-55ºC ~ +125ºC
Supply Voltage (Vdd)	2.85V ± 5%
Input Current (Idd)	
1.544 ~ 32.000 MHz	15mA
32.000+ ~ 50.000 MHz	20mA
50.000+ ~ 67.000 MHz	25mA
67.000+ ~ 80.000 MHz	30mA
Output Symmetry (50% Vdd)	45% ~ 55%
Rise Time (10% ~ 90% Vdd) (Tr)	
1.544 ~ 50.000 MHz	6nS
50.000 ~ 80.000 MHz	4nS
Fall Time (90% ~ 10% Vdd) (Tf)	
1.544 ~ 50.000 MHz	6nS
50.000 ~ 80.000 MHz	4nS
Output Voltage (Iol = 2mA) (Vol)	10% Vdd
(Ioh = 2mA) (Voh)	90% Vdd Min
Output Current (Vol = 10% Vdd) (Iol)	2mA
(Voh = 90% Vdd) (Ioh)	-2mA
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	10mS
Output Disable Time [2]	150nS
Output Enable Time [2]	10mS

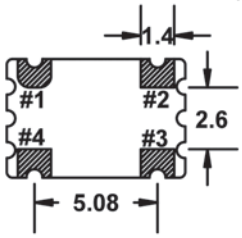
[1] Inclusive of 25ºC tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. *Excludes Shock/Vibration

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

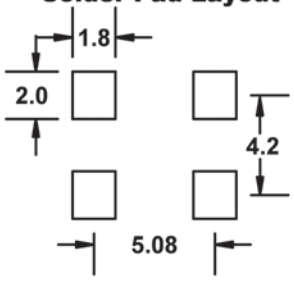
Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise.

All specifications subject to change without notice. *Rev. 6/1/04*





Recommended Solder Pad Layout



Pin Connections

#1 E/D #3 Output
#2 GND #4 V DD

All dimensions are in millimeters.

• ENABLE / DISABLE FUNCTION

INH (Pin 1)	OUTPUT (Pin 3)
OPEN [2]	ACTIVE
'1' Level VIH ≥ 70% Vdd	ACTIVE
'0' Level VIL ≤ 30% Vdd	High Z

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