## MINIATURE SMD HCMOS OSCILLATOR F3355

The F3355 are our miniature surface mount oscillators, perfect for applications such as portable computers & peripherals, telecommunication devices and instrumentation. These miniature designs offer high reliability utilizing a hermetically sealed ceramic package.

## **FEATURES**

- · Miniature Package
- · Tri-State Enable/Disable
- · 3000 G Shock Resistance
- · Tape and Reel (2,000 pcs. STD)



PARAMETERS		FREQUENCY		F	F3355	
		RANGE	CONDITIONS	MIN	MAX	UNITS
Frequency Range	(Fo)			1.544	50.000	MHz
Frequency Stabilit	y	1.544 ~ 80.000	All Conditions 1	-100	+100	PPM
Temperature Ran Operating Storage	ge (TOPR) (TSTG)	1.544 ~ 80.000		-10 -55	+70 +125	°C
Supply Voltage	(VDD)	1.544 ~ 80.000		+4.5	+5.5	V
Input Current	(IDD)	1.544 ~ 25.000 25.000+ ~ 50.000 50.000+ ~ 67.000 67.000+ ~ 80.000			13 24	mA
Output Symmetry		1.544 ~ 80.000	2.5V	45	55	%
Rise Time Fall Time	(TR) (TF)	1.544 ~ 80.000	0.5V to 4.5V 4.5V to 0.5V		10 10	nS
Output Voltage	(VOL) (VOH)	1.544 ~ 80.000	IOL = 16 mA / IOL = 4 mA IOH = -16 mA / IOH -4 mA	4.5	0.5	V
Output Current	(IOL) (IOH)	1.544 ~ 80.000	VoL = 0.5V VOH = 4.5V		4 -4	mA
Output Load		1.544 ~ 80.000	TTL HCMOS		10LS 15	TTL pF
Start-up Time	(Ts)	1.544 ~ 80.000			10	mS
Enable/Disable Time		1.544 ~ 80.000			100	nS

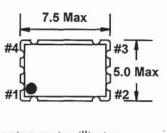
<sup>&</sup>lt;sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

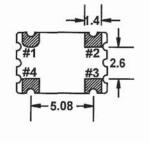
See page 44 for mechanical specifications, test circuits, and output waveform.

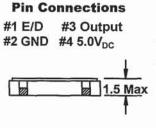
All specifications subject to change without notice.

ENABLE / DISABLE FUNCTION				
INH (Pin 1)	OUTPUT (Pin 3)			
OPEN 3	ACTIVE			
'l'Level VIH≥70%VDD	ACTIVE			
'0' Level VIL ≤30%VDD	High Z			

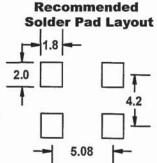
Frequency	Operating	F3355 Series
Stability (PPM) <sup>1</sup>	Temperature (°C)	Frequency Mod Range (MHz) Numb
±100	-10 ~ +70	1.000 ~ 50.000 F335
±100	-40 ~ +85	1.000 ~ 50.000 F335
±50	-10 ~ +70	1.000 ~ 50.000 F335
±50	-40 ~ +85	1.000 ~ 50.000 F3350
±25	-10 ~ +70	1.000 ~ 50.000 F335
±25	-40 ~ +85	1.000 ~ 50.000 F3350
±20	-10 ~ +70	1.000 ~ 50.000 F335







941-693-0099



All dimensions are in millimeters. See page 74 for tape and reel specifications.

<sup>&</sup>lt;sup>3</sup> 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.