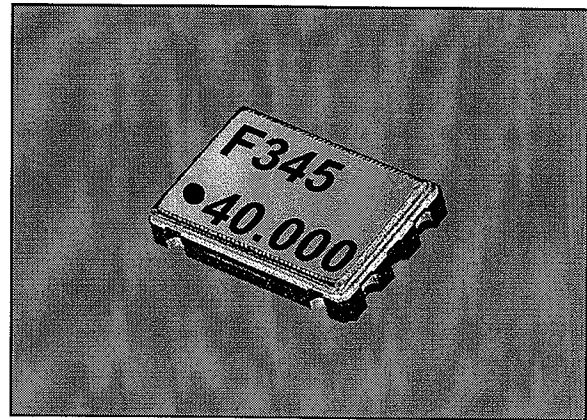


MINIATURE SMD HCMOS OSCILLATOR F3355

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)



OSCILLATORS

ELECTRICAL CHARACTERISTICS (VDD = 5.0V, CL = Max Load)

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

¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and 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.

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

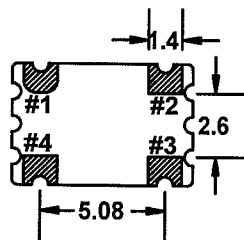
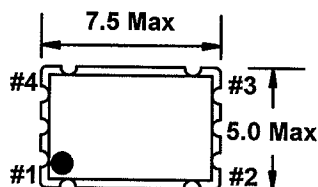
All specifications subject to change without notice. Rev. 11/30/01

MODEL NUMBER SELECTION

Frequency Stability (PPM) ¹	Operating Temperature (°C)	F3355 Series	
		Frequency Range (MHz)	Model Number
±100	-10 ~ +70	1.000 ~ 50.000	F3355
±100	-40 ~ +85	1.000 ~ 50.000	F3355R
±50	-10 ~ +70	1.000 ~ 50.000	F3350
±50	-40 ~ +85	1.000 ~ 50.000	F3350R
±25	-10 ~ +70	1.000 ~ 50.000	F3356
±25	-40 ~ +85	1.000 ~ 50.000	F3356R
±20	-10 ~ +70	1.000 ~ 50.000	F3358

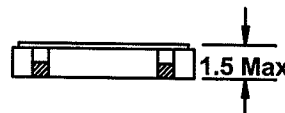
ENABLE / DISABLE FUNCTION ²

INH (Pin 1)	OUTPUT (Pin 3)
OPEN ³	ACTIVE
'1' Level VIH ≥ 2.2 V	ACTIVE
'0' Level VIL ≤ 0.8 V	High Z

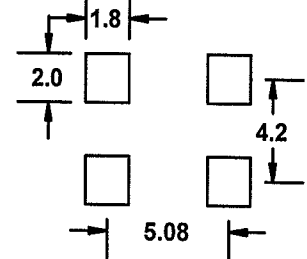


Pin Connections

- #1 E/D
- #2 GND
- #3 Output
- #4 5.0V_{DC}



Recommended Solder Pad Layout



All dimensions are in millimeters.

See page 74 for tape and reel specifications.