



5.0x3.2mm Hi-Stability SMD Oscillators - Type SQ1

Pb-Free & RoHS Compliant Model Designator Key & Specifications

*Standard Op Temp Range = -40°C to +85°C

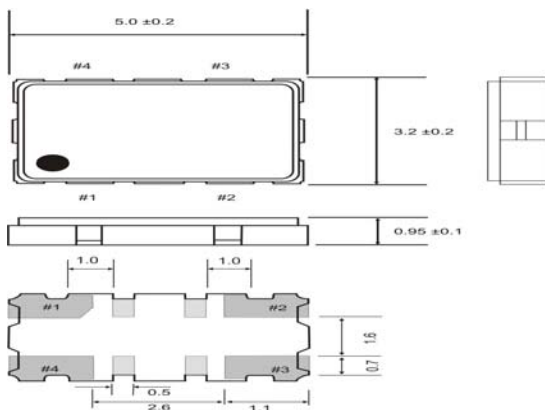
Base Model	Input Voltage	Freq Stability	Operating Temp. Range
SQ1 (5.0x3.2mm & Tristate)	33 = 3.3V	G = ±15PPM E = ±10PPM	I = -40°C to +85°C
	25 = 3.0V		
	25 = 2.5V		

Operating Conditions	
Storage Temp Range	-40°C to +85°C

Electrical Characteristics (Ta = -30°C to +70°C, V_{DD} = 3.3V, 3.0V, & 2.5V, CL = 15pF)

Parameter		Condition	Frequency Range (MHz)	Specifications		
				SQF1-33	SQ1-30	SQ1-25
Input Current (I _{DD})		15pF Load	4.0 ~ 54.00	7mA Max.		
Symmetry		@ 50% V _{DD}		45/55%		
Output Voltage	(V _{OL})	"0" Level		0.33V Max.	0.30V Max.	0.25V Max.
	(V _{OH})	"1" Level		2.97V Min.	2.70Min.	2.25 Min.
Rise Time	(T _R)	10% to 90% V _{DD}		5nS Max		
Fall Time	(T _F)	90% to 10% V _{DD}		5nS Max		
Output Current	(I _{OL})	"0"- Level		2mA Max		
	(I _{OH})	"1"- Level		2mA Min.		
Stand-By Current		V _{IL} ≤ 30% V _{DD}		10µA Max.		
Load		Cmos		15pF		
Start-Up Time			5mS Max.			
Phase Noise		at 10kHz Offset	-140dBc/Hz Typ.			

Dimensions (mm)



Enable/Disable Function	
Control (Pin #1)	OUTPUT (Pin #3)
Open	Active
"1" (VIH ≥ 70%VDD)	Active
"0" (VIL ≤ 30%VDD)	High Z

Pin Connections	
#1	E/D
#2	VSS
#3	OUT
#4	VDD

