7.5x5.0mm Low Current SMD Oscillators - Type 471

Pb-Free & RoHS Compliant **Model Designator Key & Specifications**

Base Model	Input Voltage	Freq Stability	Operating Temp. Range
471 (7.5x5.0mm & Tristate)	33 = 3.3V	A = ±25PPM	S = -10°C to +70°C I = -40°C to +85°C
	28 = 2.8V	B = ±50PPM	
	25 = 2.5V	C = ±100PPM	

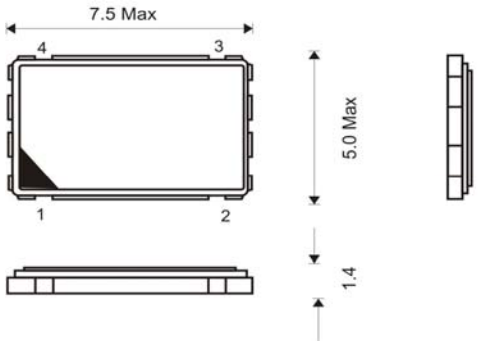
Operating Conditions	
Storage Temp Range	-55°C to +125°C

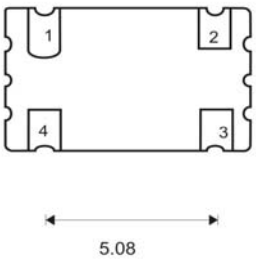
Electrical Characteristics (Ta = -20°C to +70°C, V_{DD} = 3.3V, 2.8V,& 1.8V, CL = 15pF, V_{CONT} = 1.65V, 1.4V & 0.9V)

Parameter		Condition	Frequency Range (MHz)	Specifications		
				471-33	471-28	471-25
Input Current (I_{DD})		15pF Load	1.800 to 32.000 30.001 to 52.000	3.5mA Max. 4.5mA Max.	4.0mA Max. 5.0mA Max.	4.5mA Max. 6.0mA Max.
Symmetry		@ 50% VDD	1.80 ~ 50.00	45/55%		
Output Voltage	(V_{OL})	"0" Level		10% V_{DD} Max.		
	(V_{OH})	"1" Level		90% V_{DD} Min		
Rise Time	(T_R)	10% to 90% V_{DD}		12nS Max.		
Fall Time	(T_F)	90% to 10% V_{DD}		12nS Max.		
Stand-By Current		at "0"-Level		1µA Max.		
Load		Cmos		15pF		
Start-Up Time		0V to V_{DD}		5mS Max.		

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