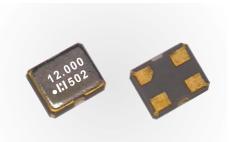


SMD CRYSTAL OSCILLATOR



•D1SX Series 2.0*1.6 OSC



FEATURES

- 2.0X1.6X0.8 Miniature Package
- Tri-State Enable/Disable
- TTL/CMOS compatible
- Home security devices, power saving application, and low frequency specification circuit design looking for a smaller package
- 3.3V, 2.8V(2.5V), 1.8V option

Electrical Specifications

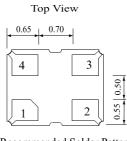
Parameter		Condition		D1SX	
Frequency Range	F0		1~60MHz		
Frequency Stability*		All Condition*	±25ppm, ±50ppm, ±100ppm		
Operating Temperature Range	Topr		-20°C~+70°C (-40°C~+85°C option)		
Storage Temperature Range	Tstg		-55°C~+125°C		
Power supply Voltage	V_{DD}		3.3V+/-10%	2.8V+/-10%	1.8V+/-10%
Supply Current	Idd	1.000MHz to 9.999MHz	8mA Max	7mA Max	6mA Max
		10.000MHz to 34.999MHz	10mA Max	8mA Max	7mA Max
		35.000MHz to 49.999MHz	25mA Max	20mA Max	15mA Max
		50.000MHz to 54.000MHz	35mA Max	30mA Max	25mA Max
Output Symmetry	Sym	At 1/2Vdd	40/60%(45/55% Option)		
Rise time	Tr	$10\%V_{DD}\sim90\%V_{DD}$	5 nS Max	6 nS Max	7 nS Max
Fall Time	$T_{\rm f}$	90%Vdd~10%Vdd	5 nS Max	6 nS Max	7 nS Max
Output Voltage	V_{OH}		90% Vdd Min		
	V_{OL}		10% V _{DD} Max		
Output Load HCMOS Load	put Load HCMOS Load 15pF Typ.				
Start Time	Ts		10mS Max		
Stard-by Function			Yes		
Aging(First Year)		25°C ±3°C	± 2 ppm Max		
Pin 1,tri-state function			Pin 1=H or openOutput active at pin 3		
Till Till State Talletion			Pin 1=Lhigh impedance at pin 3		

^{*}Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

Mechanical Dimensions(mm)



 2.00 ± 0.10



Pin Connection
#1 Tri-State
#2 GND
#3 Output
#4 Vpp

Recommended Solder Pattern

į	0.85	0.50	0.85	
				0.75
_				0.30
				0.75
				0

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