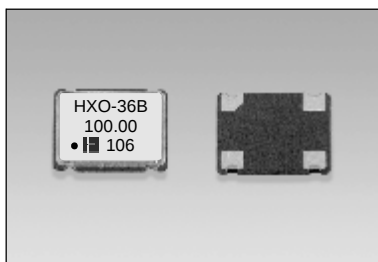




CERAMIC SMD QUARTZ OSCILLATOR



• HXO-3 Series



7.0X5.0X1.5 mm

FEATURES

- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 5.0V, 3.3V, 2.8V and 1.8V Options

Electrical Specifications

For the latest data sheet, please visit www.sunnywale.com

Parameter		Condition	HXO-33	HXO-36	HXO-39	HXO-37	Note
Frequency Range	F0		1MHz~100MHz	1MHz~133MHz			
Frequency Stability*		All Condition*	± 20ppm, ± 50ppm Options				See table1
Operating Temperature Range	T _{OPR}		-20℃~+70℃ (-40℃~+85℃ Options)				See table2
Storage Temperature Range	T _{STG}		-55℃~+125℃				
Power supply Voltage	V _{DD}		5.0V+/-10%	3.3V+/-10%	2.8V+/-10%	1.8V+/-10%	
Supply Current	I _{DD}	1MHz to 9.999MHz	15mA Max	8mA Max	7mA Max	6mA Max	
		10MHz to 34.999MHz	20mA Max	10mA Max	8mA Max	7mA Max	
		35MHz to 49.999MHz	35mA Max	25mA Max	20mA Max	15mA Max	
		50MHz to 133.000MHz	40mA Max	35mA Max	30mA Max	25mA Max	
Output Symmetry	Sym	At 1/2V _{DD}	40/60%(45/55% Options)				
Rise time	T _r	10%V _{DD} ~90%V _{DD}	6 nS Max	6 nS Max	7 nS Max	8 nS Max	
Fall Time	T _f	90%V _{DD} ~10%V _{DD}	6 nS Max	6 nS Max	7 nS Max	8 nS Max	
Output Voltage	V _{OH}		90% V _{DD} Min				
	V _{OL}		10% V _{DD} Max				
Output Load	HCMOS Load		15pF Typ.				
Start Time	T _s		10mS Max				
Stand-by Function			Yes				
Aging(First Year)		25℃±3℃	± 2ppm Max				
Pin 1,E/D function			Pin 1=H or open....Output active at pin 3				
			Pin 1=L.....high impedance at pin 3				
Packing Unit			1000pcs/reel				

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

Part Number Generation

Example: **D 3 6 B 100.000 G T S**

Internal Code

Package

Power supply Voltage (3=5V
6=3.3V 9=2.8V 7=1.8V)

Frequency Stability (In ppm)

Nominal Frequency (In MHz)

Operating Temperature Range

Output Symmetry (N=40/60% T=45/55% R=47.5/52.5%)

Output Load (S=Standard H=High)

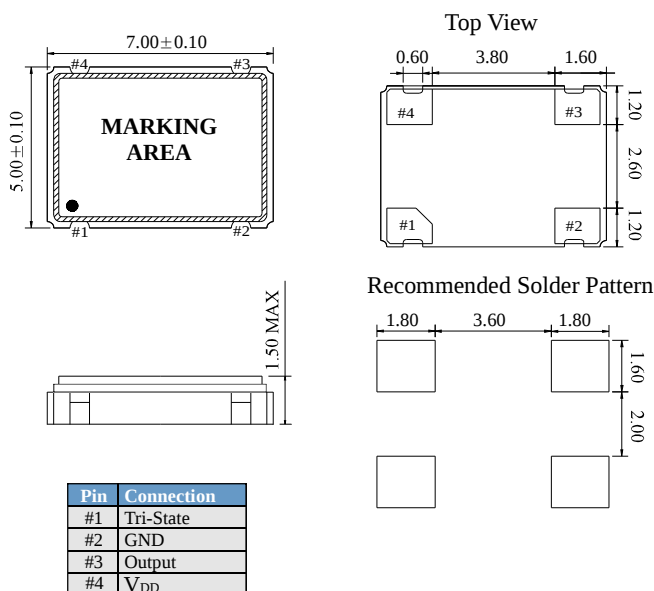
Table 1:

Frequency Stability
G= $\pm 20\text{ppm}$
A= $\pm 25\text{ppm}$
B= $\pm 50\text{ppm}$

Table 2:

Operating Temp.
E = -20°C to +70°C
G = -30°C to +85°C
W = -40°C to +85°C

Mechanical Dimensions(mm)



**Note: 0.01uF bypass capacitor should be placed between V_{DD}(Pin4) and GND (Pin2) to Minimize power supply line noise

TAIWAN:

HOSONIC ELECTRONIC CO., LTD.
23-1 LANE 84. CHUN YING ST. SHULIN CHEN.
TAIPEI 23804. TAIWAN

☎: 886-2-86875288
☎: 886-2-26816488

CHINA:

Sales: Shenzhen Sunnywale
Inc, www.sunnywale.com, awin@sunnywale.com
, Wechat: 9308762

☎: 86-755-83045321
☎:

Specifications are subject to change without notice