

Features

Frequency range : 1MHz to 133MHz
 SMD seam sealing ceramic package
 Supply voltage : 1.8V ~ 3.3V
 CMOS output
 Tri-state function available
 External dimensions (mm)
 L : 3.2 x W : 2.5 x H : 1.0
 RoHS compliant & Pb free

Applications

Networking, Server, Storage
 Wireless communications
 Fibre channel, Ethernet, SATA, SAS,
 PCI-E, USB, WLAN, xDSL, xPON
 PC mainboard, Notebook, HDD, SSD,
 Graphics card, Computer peripherals
 Audio, Video, Gaming, Printer, DSC,
 IP CAM, Consumer products

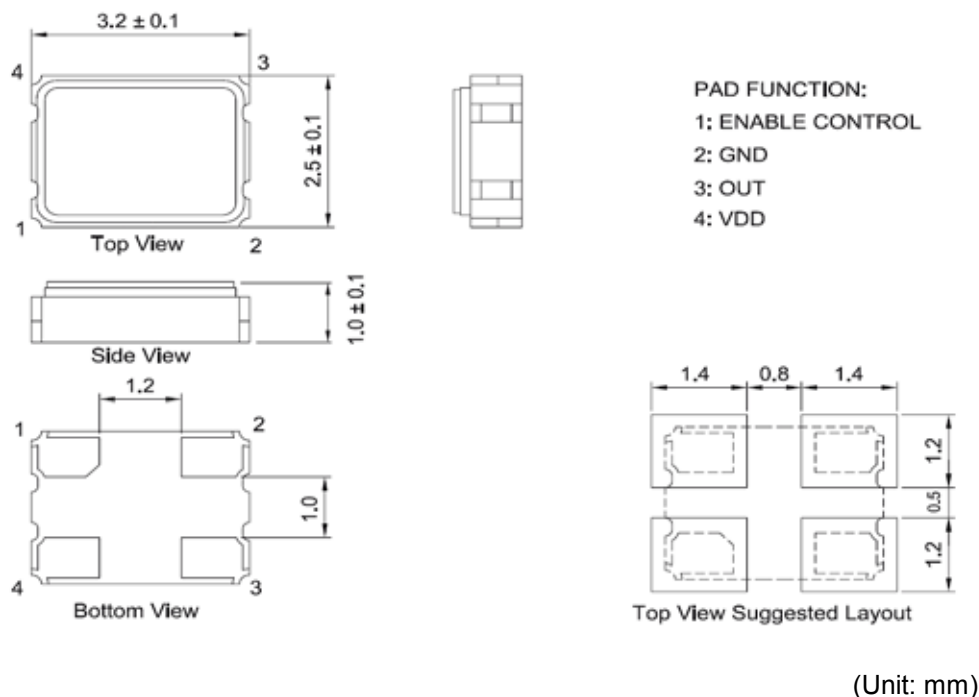
Electrical Characteristics

Item	7X	Conditions
Frequency Range (F_0)	1MHz ~ 133MHz	
Frequency Stability (F_{stab})	± 50 , ± 25 ppm	-10°C ~ +70°C; Note [1]
	± 50 , ± 25 , ± 20 ppm	-40°C ~ +85°C; Note [1]
Operating Temperature Range (T_{OTR})	-10°C ~ +70°C	
	-40°C ~ +85°C	
Supply Voltage (V_{DD})	1.8V, 2.5V, 3.3V	$V_{DD} \pm 10\%$
Current Consumption (I_{DD})	10 mA Max.	1MHz ~ 75MHz
	15 mA Max.	75MHz ~ 133MHz
Output Type	CMOS	
Output Load (C_L)	15 pF	
Output Voltage High (V_{OH})	90% V_{DD} Min.	
Output Voltage Low (V_{OL})	10% V_{DD} Max.	
Rise & Fall Time (T_r / T_f)	8 ns Max.	10% ~ 90% of V_{DD}
Duty Cycle	45% ~ 55%	
Start-up Time	5 ms Max.	
Enable Voltage High, Logic "1"	70% V_{DD} Min.	Input to Pin1 Note [2]
Enable Voltage Low, Logic "0"	30% V_{DD} Max.	
Phase Jitter, RMS	1 ps Max.	Note [3]
Aging (F_{aging})	± 3 ppm Max.	at 25°C $\pm$ 3°C, first year
Storage Temperature Range (T_{STR})	-55°C ~ +125°C	

Notes:

- [1] Inclusive of frequency tolerance at 25°C, 1st year aging at 25°C, and variations over operating temperature, supply voltage, and load.
- [2] Output will be enabled if Pin1 is Logic "1" or open; Output will be disabled if Pin1 is Logic "0".
- [3] Freq. 10MHz~40MHz, integrated 12kHz~5MHz; Freq. >40MHz, integrated 12kHz~20MHz.

Dimensions



Ordering Information

7X - 30.000M B B - T

Frequency in Hz

Please contact us for available frequencies

Packaging Method

T Tape & Reel

Supply Voltage

B	3.3 V
C	2.5 V
D	1.8 V

Frequency Stability

B	± 50 ppm (-10°C ~ +70°C)
C	± 100 ppm (-10°C ~ +70°C)
F	± 100 ppm (-40°C ~ +85°C)

Technical drawing of a 120° sector of a circular part. The drawing includes a side view, a top view, and a detailed view of a corner.

Side View Dimensions:

- Overall height: 8.0 ± 0.2
- Top flange height: 3.5 ± 0.05
- Top flange width: 1.55 ± 0.05
- Top flange hole diameter: 2.0 ± 0.05
- Top flange hole spacing: 4.0 ± 0.1
- Top flange hole diameter (bottom view): 1.0 (min)
- Bottom flange height: 1.75 ± 0.1
- Bottom flange width: 2.7 ± 0.1
- Bottom flange hole diameter: 5° (max)

Top View Dimensions:

- Overall diameter: 120°
- Inner hole diameter: $\phi 60.2 \pm 0.5$
- Outer hole diameter: $\phi 178 \pm 1$
- Inner hole hole diameter: 8×1
- Inner hole hole spacing: 11.5 ± 0.2

Detail View Dimensions:

- Overall height: 0.25 ± 0.05
- Top flange height: 5° (max)
- Top flange width: 3.4 ± 0.1
- Top flange hole diameter: 1.4 ± 0.1

(Unit: mm)

Solder melting point : 220°C ± 10°C, 60 sec. Min.
Peak temperature : 260°C ± 10°C, 10 sec. Min.

