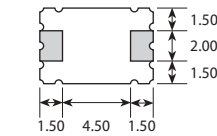
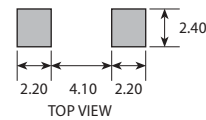


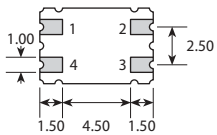
SOLDER PAD LAYOUTS



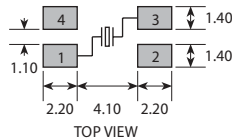
GSX-1A



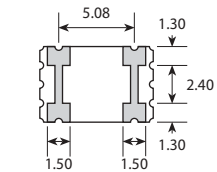
TOP VIEW



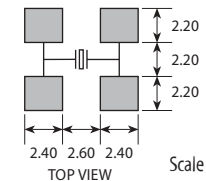
GSX-1B



TOP VIEW



GSX-1C



TOP VIEW

Scale 2:1

Features

- ▶ Ceramic SM package
- ▶ Fundamental mode up to 50.0MHz
- ▶ Low cost for volume applications
- ▶ Large stocks of standard frequencies

Standard Frequencies

Fundamental in MHz			3rd Overtone
6.000000	16.000000	29.498900	32.000000
7.372800	16.384000	30.000000	32.768000
8.000000	18.000000	32.000000	36.000000
9.216000	18.432000	32.768000	36.864000
9.830400	19.660800	36.000000	40.000000
10.000000	20.000000	36.864000	49.152000
11.059200	22.118400	40.000000	50.000000
12.000000	24.000000	49.152000	56.448000
14.318180	24.576000	50.000000	60.000000
14.745600	25.000000		64.000000
15.000000	28.224000		66.666000
15.360000	29.491200		

Specifications

GSX-1A: 2 pads, opposite ends

GSX-1B: 4 pads, diagonal connections

GSX-1C: 2 pads, 5.08mm pitch

Parameters	Variant			Option Codes
	A	B	C	
Package:	GSX-1A GSX-1B GSX-1C	■ ■ ■	■ ■ ■	
Frequency range:	6.0 ~ 67.0MHz	■	■	■
Calibration tolerance:	±30ppm ±50ppm Other (±20ppm ~ ±100ppm)	□ ■ □	□ ■ □	□ ■ □
Temperature stability:	±30ppm ±50ppm ±100ppm ±20ppm ~ ±100ppm	□ ■ □ □	□ ■ □ □	□ ■ □ □
Operating temperature range:	-10 to +60°C -20 to +70°C -40 to +85°C other	■ □ □ □	■ □ □ □	■ □ □ □
Circuit condition:	12pF 16pF 18pF 20pF 30pF Series resonant other values	□ ■ □ □ □ □ □	□ ■ □ □ □ □ □	□ ■ □ □ □ □ □
Oscillation mode:	Fundamental (6.0 ~ 50.0MHz) 3rd overtone (28.1 ~ 50.0MHz) 3rd overtone (50.1 ~ 67.0MHz)	■ □ ■	■ □ ■	■ □ ■
Static capacitance (C <sub>0</sub> ):	7pF max	■	■	■
Equivalent series resistance (max):	80Ω (6.0 ~ 9.9MHz) 60Ω (10.0 ~ 15.9MHz, fund) 40Ω (16.0 ~ 50.0MHz, fund) 60Ω (28.0 ~ 67.0MHz, 3rd OT)	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■
Ageing:	±5ppm max first year	■	■	■
Test drive level:	100μW	■	■	■
Soldering condition:	260°C, 10 sec x2 max	■	■	■

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product name + variant + option codes (if any) + frequency + circuit condition (if non-standard)

eg: **GSX-1A/551DF 16.0MHz** 50/50/10/16-F (standard)

**GSX-1A/5C1S3 48.0MHz** 50/100/10/S-3

Option code X (eg GSX-1/X) denotes a custom specification.

- ◆ Preferred choice for SM crystal.
- ◆ Available on T&R - 2k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.