



SWCX1 SWEPT QUARTZ CRYSTALS

6 MHz to 250 MHz

Radiation Resistant, Miniature Surface Mount
and Leaded Quartz Crystals

DESCRIPTION

For applications that require resistance to radiation, Statek offers our swept quartz AT-cut resonators. Made with cultured quartz that is electrically "swept" at high temperature to remove interstitial impurities within the crystalline structure, these resonators are superior to those utilizing non-swept quartz in maintaining their frequency and other electrical characteristics under exposure to radiation levels of 100 krad (1 kGy) and greater. As Rad-Hard applications typically require various degrees of high-reliability components, Statek offers these resonators in three distinct screening options to meet mission critical program requirements from Engineering to Flight.

FEATURES

- Radiation tolerance up to 100 kRad total dose
- High shock and vibration resistance
- Ultra high reliability
- Custom designs available
- Military and space screening available
- Low aging
- Designed, manufactured and tested in the USA
- Critical processes performed in class 10 cleanroom

APPLICATIONS

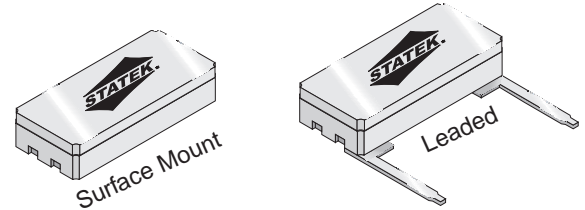
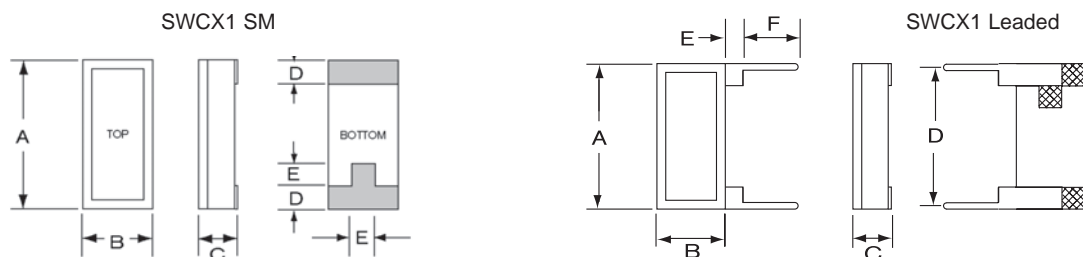
Military & Aerospace

- Satellite
- Space exploration systems
- Deep space probes
- Telemetry

PACKAGING OPTIONS

- Tray Pack (standard for Leaded, option for SM)
- 16mm tape, 7" or 13" reels (only for SM)
Per EIA 481 (see Tape and Reel data sheet 10109)

PACKAGE DIMENSIONS



DIMENSIONS¹

DIM	Surface Mount		Leaded	
	TYPICAL	TYPICAL	TYPICAL	TYPICAL
	inches	mm	inches	mm
A	0.315	8.00	0.315	8.00
B	0.140	3.56	0.140	3.56
C (max)	0.070	1.78	0.070	1.78
D	0.045	1.14	0.310	7.87
E	0.060	1.52	0.020	1.02
F	-	-	0.150	3.81

03 Lead dimension

Width = .018" (.46 mm) typical

Thickness = .012" (.30 mm) typical

1. Other package options are available; contact factory

TERMINATIONS AVAILABLE SM / LEADED

Designation	Termination
SM1	Gold Plated
SM2 / 03	Solder Plated
SM3 / 03	Solder Dipped