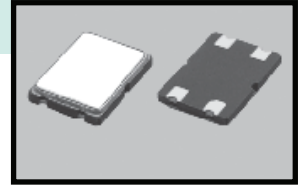


Quartz Crystal Resonator (MHz)

SX7050



General Description

The SX7050 is a ceramic packaged quartz crystal unit.

Features

Excellent heat resistance, high precision and high reliability
Wide frequency range

Main Applications

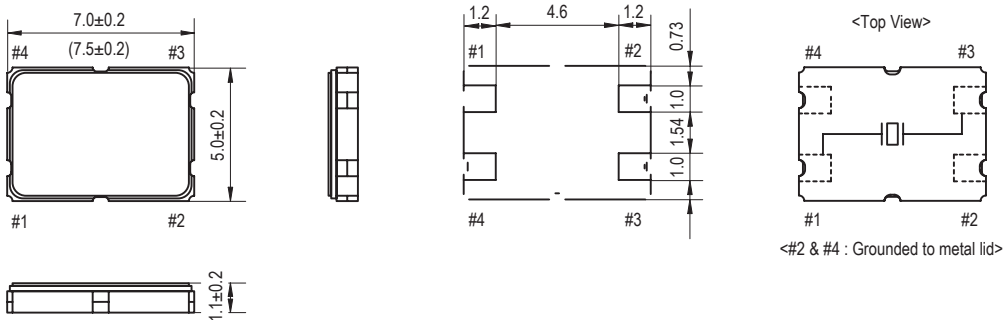
Digital AV equipment and microelectronics in general

Electrical characteristics

Item	Symbol	Values	
Part number		SX7050	
Mode of vibration		Fund.	3rd Ov
Frequency range	F	6 - 45 M	45 - 133 M
Frequency tolerance (@ +25°C)	$\Delta f/F$	$\pm 5 - 30$ ppm	
Frequency stability	$\Delta f/F$	see table 1	
Operating temp. range	To	see table 1	
Storage temp. range	Ts	-55°C / +135°C	
Load capacitance	Cl	6-50pF or Serie	
Resonance Resistance	R1	80Ω max up to 16MHz ; 40Ω max up to 30MHz ; 30Ω max up to 45MHz ; 80Ω max >45MHz	
Shunt capacitance	CO	< 7pF	
Insulation resistance		>500 MΩ / DC100V	
Drive level	P	0.2mW	
Turnover temperature	Tt	+25°C $\pm 5^\circ$ C	
Aging	$\Delta f/F$	± 3 ppm max @ +25°C	

Table 1	3ppm	5ppm	10ppm	15ppm	20ppm	30ppm	50ppm
0°C / +50°C		•	•	•	•	•	•
-10°C / +60°C			•	•	•	•	•
-20°C / +70°C			•	•	•	•	•
-40°C / +85°C				•	•	•	•
-40°C / +105°C							
-55°C / +125°C							

Dimensions



Remark : specifications subject to change without prior notice. Please confirm with our sales

SX7050

Part Number Generator

SX7050 10.000000 F AT P20 E F H TR xxx
 0 1 2 3 4 5 6 7 8 9

0 : Holder
 SX7050

1 : Frequency (MHz)
 □□□.□□□□□□
 max 10 digits including comma

2 : Vibration mode
 F = Fund.
 X = 30V

3 : Cut
 AT

4 : Load capacitance
 S=Serie
 P20=20pF
 P30=30pF
 etc

5 : Tolerance
 A= $\leq \pm 30$ ppm
 B= $\leq \pm 25$ ppm
 C= $\leq \pm 20$ ppm
 D= $\leq \pm 15$ ppm
 E= $\leq \pm 10$ ppm
 F= $\leq \pm 7.5$ ppm
 G= $\leq \pm 5.0$ ppm

6 : Op. temp. range
 A= 0/+50
 D=-10/+60
 F=-20/+70
 N=-40/+85
 P=-40/+105
 R=-55/+125

7 : Stability
 A< ± 50 ppm
 D< ± 30 ppm
 F< ± 20 ppm
 G< ± 15 ppm
 H< ± 10 ppm
 M< ± 5.0 ppm

8 : Packing
 TF = Tape & Reel

9 : Customized code
 Note : factory use

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