

# X8(HC-43/U) Type

#### **FEATURE**

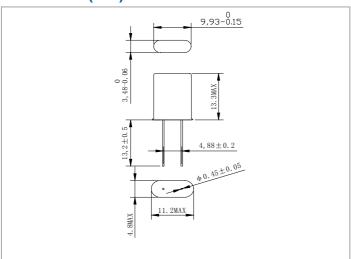
- 10 x 3.0 x 13.0mm HC-43/U Cold Weld
- Gold electrode, vacuum
- Fast warm up
- High stability, low temperature frequency coefficient
- Good aging and reliability

## **TYPICAL APPLICATION**

- Precision OCXO, VCXO and TCXO oscillators



# **DIMENSION (mm)**



# **EQUIVALENT SERIES RESISTANCE (E.S.R)**

Frequency Range	MODE(Cut)	E.S.R.
4 MHz≦Fo≦8 MHz	AT Fundamental	≦20Ω
8 MHz <fo≦10 mhz<="" th=""><th>AT 3<sup>rd</sup> OT</th><th>≦40Ω</th></fo≦10>	AT 3 <sup>rd</sup> OT	≦40Ω
10 MHz <fo≦20 mhz<="" th=""><th>AT 3<sup>rd</sup> OT</th><th>≦30Ω</th></fo≦20>	AT 3 <sup>rd</sup> OT	≦30Ω
20 MHz <fo≦50 mhz<="" th=""><th>AT 3<sup>rd</sup> OT</th><th>≦20Ω</th></fo≦50>	AT 3 <sup>rd</sup> OT	≦20Ω
50 MHz <fo≦100 mhz<="" th=""><th>AT 5<sup>th</sup> OT</th><th>≦50Ω</th></fo≦100>	AT 5 <sup>th</sup> OT	≦50Ω
10 MHz <fo≦20 mhz<="" th=""><th>SC 3<sup>rd</sup> OT</th><th>≦105Ω</th></fo≦20>	SC 3 <sup>rd</sup> OT	≦105Ω
20 MHz <fo≦40 mhz<="" th=""><th>SC 3<sup>rd</sup> OT</th><th>≤60Ω</th></fo≦40>	SC 3 <sup>rd</sup> OT	≤60Ω

## **ELECTRICAL SPECIFICATION**

Parameter	Min.	Typical	Max.	Unit
Operating Temp. Range	-55		+125	°C
Standard Frequency	10, 12.8, 13, 16.384			MHz
Turn Point	+75°C to +105°C (mode, cut, frequency dependent, other turn points			°C
Frequency Tolerance @ Turn			±5	ppm
Level of Drive		100	500	μW
Shunt Capacitance (C0)			7.0	pF
Insulation Resistance	500MΩ @ DC100V			
Aging		±0.5 to ±1.0		ppm/year

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

## **STANDARD OPTIONS**

Nominal Frequency	MODE(Cut)	R(Ω)	C0(pF)	C1(fF)	Q(Typical)	Aging(ppm/year)
10 MHz	AT 3 <sup>rd</sup> OT	<45	<2.6	0.44 ± 20%	645k	0.3
12.8 MHz	AT 3 <sup>rd</sup> OT	<45	< 2.6	0.85 ± 20%	460k	0.5
16.384 MHz	AT 3 <sup>rd</sup> OT	<30	<3.8	1.60 ± 20%	420k	0.5
10 MHz	SC 3 <sup>rd</sup> OT	<105	<2.6	0.19 ± 20%	1,000k	0.05
12.8 MHz	SC 3 <sup>rd</sup> OT	<90	<2.6	0.19 ± 20%	890k	0.06
13 MHz	SC 3 <sup>rd</sup> OT	<90	< 2.6	0.19 ± 20%	930k	0.06
16.384 MHz	SC 3 <sup>rd</sup> OT	<85	<3.0	0.20 ± 20%	700k	0.06

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