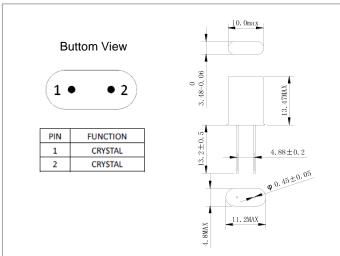
X8(HC-43/U) Type FEATURE

- Gold Electrode
- Vacuum Sealed
- High Q Value
- High Stability
- Good Aging and Reliability

TYPICAL APPLICATION

- Precision OCXO, VCXO and TCXO oscillators

DIMENSION (mm)





and the second s

RoHS Compliant

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 3rd OT</th><th>≦50Ω</th></fo≦10>	AT 3 rd OT	≦50Ω	
10 MHz <fo≦20 mhz<="" th=""><th>AT 3rd OT</th><th>≦50Ω</th></fo≦20>	AT 3 rd OT	≦50Ω	
20 MHz <fo≦50 mhz<="" th=""><th>AT 3rd OT</th><th>≦20Ω</th></fo≦50>	AT 3 rd OT	≦20Ω	
50 MHz <fo≦100 mhz<="" th=""><th>AT 5th OT</th><th>≦80Ω</th></fo≦100>	AT 5 th OT	≦80Ω	
10 MHz <fo≦20 mhz<="" th=""><th>SC 3rd OT</th><th>≦105Ω</th></fo≦20>	SC 3 rd OT	≦105Ω	
20 MHz <fo≦40 mhz<="" th=""><th>SC 3rd OT</th><th>≦60Ω</th></fo≦40>	SC 3 rd OT	≦60Ω	

ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit
Operating Temp. Range	-55		+125	°C
Standard Frequency			MHz	
Turn Point	(mode, cut, frequen	°C		
Frequency Tolerance @ Turn			±5	ppm
Point				
Level of Drive		100	500	μW
Shunt Capacitance (C0)			7.0	pF
Insulation Resistance	500MΩ @ DC100V			
Aging		ppm/year		

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

STANDARD OPTIONS

Nominal Frequency(MHz)	MODE(Cut)	R(Ω)	C0(pF)	C1(fF)	Q(Typical)	Aging(ppm/year)
10 MHz	AT 3 rd OT	<45	<2.6	0.44 ± 20%	645k	0.3
12.8 MHz	AT 3 rd OT	<45	<2.6	0.85 ± 20%	460k	0.5
16.384 MHz	AT 3 rd OT	<30	<3.8	1.60 ± 20%	420k	0.5
10 MHz	SC 3 rd OT	<105	<2.6	0.19 ± 20%	1,000k	0.05
12.8 MHz	SC 3 rd OT	<90	<2.6	0.19 ± 20%	800k	0.06
13 MHz	SC 3 rd OT	<90	<2.6	0.19 ± 20%	800k	0.06
16.384 MHz	SC 3 rd OT	<85	<3.0	0.18 ± 20%	700k	0.06

Note: not all combination of options are available. Other specifications may be available upon request.