

# 10MHz. High Q SC Crystal HC-37 (TO-8) Low Profile QC35045

**Features:**

- High Q w/1.25M Typical
- Low Aging rate of < 30ppm
- HC-37 .160in. [4.6mm] max. Height
- RoHS compliant
- Manufactured in Erie, Pa. USA

**Description:**

- 10 MHz 3<sup>rd</sup> OT SC resonator in Low Profile HC-37 Package.
- Excellent close in Phase Noise capability.
- A rugged 4-Point Mount mechanical structure



**Electrical Specifications**

	Parameter	Min.	Typ.	Max.	Unit	Test Conditions
1.1	Frequency		10		MHz	
1.2	Crystal Cut		SC		Standard	3 <sup>rd</sup> Overtone
1.3	Holder (BK5W-LP)		4		Post	HC37-LP
1.4	Frequency Tolerance		±1.5		PPM	@+120°C
1.5	Load Capacitance		18		pF	
1.6	Upper Turn Point	+95		+110	Deg C	
1.7	Electrical					
	Rs			78	Ohms	
	C1		0.17		fF	
	C0		3		pF	
	Q	1200	1250		K	
	Drive Level		50		uWatts	
1.8	Aging		<20	30	PPB	Per Year after 30 days of operation

- Consult Factory for alternative specifications

## Environmental, Reliability and Mechanical Specifications

	Parameter	Min.	Typ.	Max.	Unit	Test Conditions
2.1	Shock	<b>Mil-Std 202 Method 213 Condition E</b>				
2.2	Vibration	<b>Mil-Std 202G Method 204 Condition D</b>				
2.3	TC	<b>Mil-Std 202G Method 107 Condition B2</b>				

## Mechanical Dimensions and Pin Functions

