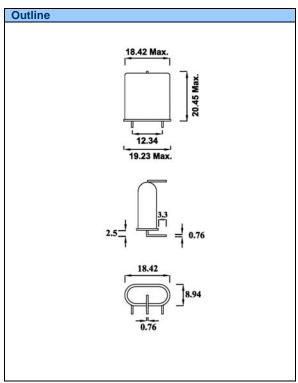


QUARTZ CRYSTAL - HC-51/U SMD

□ FEATURE

- All metal welded package
- Wide frequency range from 1 MHz upto 150 MHz
- RoHS Compliant Standard



\blacksquare	ΑII	dimensions	are	in	mm.

Exam	ring Ir ple	11011111	ation				
51U	S	F	С	D	1	20 P	010M000000
Package							Frequency 10MHz
requency adjus Tolerance at	ment _←)	esonance Condition (XS: Series 20 P: Parallel with 20
OTR: -20 to	70°C					→ Mo	3: 3 rd Overtone 5: 5 th Overtone
							tability over OTR: 10 PPM

Frequency Range	1.000 MHz to 150 MHz
Frequency Adjustment Tolerance at 25° C	Select from table below
Operating Temperature Range	Select from table below
Frequency Stability	Select from table below
ESR	Select from table below
Drive level	100 μ Watts Typical (or specify)
Shunt Capacitance C0	7.0 pF max.
Resonance Condition	XXS – series, XXP – Parallel with xx pF (for parallel please specify the xx value in pF)
Ageing	Resistance Weld: ±3 PPM / Year

Operating Temperature Range				
Code	Range			
Α	0 to +50 °C			
В	0 to +60 °C			
F	0 to +70 °C			
D	-10 to +60 °C			
Е	-10 to +70 °C			
С	-20 to +70 °C			
G	-30 to +80 °C			
Η	-30 to +85 °C			
	-40 to +85 °C			
J	-40 to +90 °C			
K	-55 to +105 °C			
L	-55 to +125 °C			

Frequency Adjustment Tolerance at 25°C/Stability Over OTR			
Code	Stability		
R	±3 PPM		
В	±5 PPM		
С	±7.5 PPM		
D	±10 PPM		
Е	±15 PPM		
F	±20 PPM		
G	±25 PPM		
Н	±30 PPM		
M	±50 PPM		
K	±100 PPM		

Frequency Range By Mode of Oscillation				
Fundamental	3rd Overtone	5th Overtone		
1.000 to 37 MHz	20 to 85 MHz	60 to 150 MHz		

Max Equivalent		
Frequency Range MHz	ESR	
Fundamental		
1.0 to ≤1.4	500 Ω	
1.4 to ≤2.5	250 Ω	
2.5 to ≤ 3.5	150 Ω	
3.5 to ≤3.9	80 Ω	
4.0 to ≤5.0	50 Ω	
5.0 to ≤7.0	40 Ω	
7.0 to ≤9.0	35 Ω	
9.0 to ≤12.0	30 Ω	
12.0 to ≤20.0	25 Ω	
20.0 to <37.0	20 O	

e	eries Resistance Table					
	Frequency Range MHz	ESR				
3rd Overtone						
	20.0 to ≤30.0	35 Ω				
	30.0 to ≤85.0	30 Ω				
	5th Overtone					
	60.0 to ≤100.0	70 Ω				
	100.0 to ≤150.0	Ω 08				

Pin Profile	Code	
2 Pin SMD with Straight	S	

Specifications subject to change without notice Revision No. 12b of May 2008

ANDHRA ELECTRONICS LIMITED

34 & 35, IDA, Kakinada, AP – 533 005, INDIA.

URL: www.andhraelec.com

Phone: +91-884-2342203 Fax:+91-884-2341145 E-mail: info@andhraelec.com