



HC-49/UGull Wing

Specifications

Features

- Low Cost
- Thru-Hole Package
- Multiple Package Heights
- Surface Mount Lead Forming

Application

- Digital TV, Color TV, Audio-Visual
- Automotive Electronics
- Office Equipment
- Set top Box

Item	Specification	Remarks
Package	HC-49/U & HC-49/T	
Frequency Range	1.000MHz to 40.000MHz	Fundamental Mode
	20.000MHz to 200.000MHz	Overtone Mode
Frequency tolerance @ 25℃	±5PPM Min , 50PPM Max	
Temperature Stability	See table 1	
Operating Temp	See table 1	
Storage Temperature Range	-55℃ to 125℃	
Load Capacitance	10pF to 50pF or Series	
Equivalent Series Resistance	See table 2	
Drivel Level	10uW to 100uW	
Shunt Capacitance	7pF Max	
Insulation resistance	500MΩ Min	
Aging	±5PPM / Year Max	
Shock resistance	±10PPM Max	
Crystal Cut	AT strip	

Frequency Vs Temperature

Table 1

Temp Range	Frequency Temperature Stability (PPM)						
	±5	±7	±10	±15	±20	±30	±50
0~50℃	✓	✓	✓	✓	✓	✓	✓
-10~60℃		✓	✓	✓	✓	✓	✓
-20~70℃			✓	✓	✓	✓	✓
-40~85℃					✓	✓	✓

Maximum Equivalent Series Resistance

Table 2

Frequency Range	ESR (Ω)	Mode	Frequency Range	ESR (Ω)	Mode
3.5 to 4.79M	150 Ω	Fund	12.0to17.0M	50 Ω	Fund
4.8 to 5.79M	120 Ω	Fund	17.1to27.0M	40 Ω	Fund
5.8 to 7.99M	90 Ω	Fund	27.1to48.0M	80 Ω	3OT
8.0 to 11.9M	70 Ω	Fund	48.1to64.0M	60 Ω	3OT

Part Numbering: A33B32-14.31818

Holder Tolerance Stability TR range Load Cl Lead-F Mode package

A	3	3	B	32	—1431818	T
A:HC-49/U	0: ±100ppm	6: ±100ppm	A: 0-50 °C	00:Series	:no	:fund :bulk
B:HC-49/T	5: ±50ppm	5: ±50ppm	B: -10-60 °C	32:32pf	C:cut	T:30T C:Carrier
	3: ±30ppm	3: ±30ppm	C: -20-70 °C		M:middle	F:30T P:Paper
	2: ±20ppm	2: ±20ppm	D: -40-85 °C		T:top	S:70T Tape
	1: ±10ppm	1: ±10ppm			G:gull	
	4: ±5ppm	4: ±5ppm			S:sleeve	
	6: ±15ppm	6: ±15ppm				

Outline Drawings

