

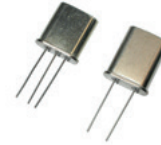
49U THRU-HOLE CRYSTAL

FEATURES

- High Precision availability
- Wide Frequency Range
- One day delivery
- Applications: Telecommunication equipment,...

11.0 x 4.7 x 13.5 mm U-version

11.0 x 4.7 x 11.0 mm UT-version



Item	Symbol	Specification
Frequency Range	Fo	1.0 MHz ~ 200 MHz
Operation Mode		1.0 MHz +Fundamental (see options) 20.0 MHz ~ 100.0 MHz 3rd-overtone (see options) 50.0 MHz ~ 160.0 MHz 5th-overtone (see options) 80.0 MHz ~ 200.0 MHz 7th-overtone (see options)
Operating temperature Range	To	0° to +70°C (see options)
Frequency Tolerance at 25°C	Δf/F	± 10ppm max. (see options)
Temperature Stability	Δf/F	± 10ppm max. (see options)
Load Capacitance (CL)	CL	series or 5 pF to 100 pF (see options)
Equivalent Series Resistance	ESR	Frequency dependent, please consult factory
Shunt Capacitance (Co)	Co	7pF Max
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	3 mW max.
Aging	Δf/F	±5ppm max (at 25°C, first year)
Packing Unit		Bulk in bag
		Customer specifications on request

OPTIONS & ORDERING INFORMATION

Version	Freq. Tolerance	Freq. Stability*	Operating Temp.*	Load Capacitance	Mode	Frequency in MHz	ESR if custom required	3rd lead option
blanc = 13.5 mm	05 = ±5 ppm	05 = ±5 ppm	D = -10° / +60°C	Please specify	F = Fundamental	Please specify	Specify a value	3L = 3th lead
T = 11.0 mm	10 = ±10 ppm	10 = ±10 ppm	E = 0° / +70°C	CL in pF or S	D = 3rd overtone	the frequency in	in Ω	option
	15 = ±15 ppm	15 = ±15 ppm	F = -20° / +70°C	for Series	V = 5th overtone	MHz		
	20 = ±20 ppm	20 = ±20 ppm	G = -30° / +75°C		Z = 7th overtone			
	25 = ±25 ppm	25 = ±25 ppm	H = -30° / +85°C					
	30 = ±30 ppm	30 = ±30 ppm	K = -40° / +85°C					
	50 = ±50 ppm	50 = ±50 ppm						

* Note: Not all combinations are possible, please consult us.

OUTLINE DIMENSIONS

