

# 49MJ SURFACE-MOUNT CRYSTAL

## FEATURES

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

13.5 x 11.0 x 5.3 mm U-version

11.0 x 11.0 x 5.3 mm T-version



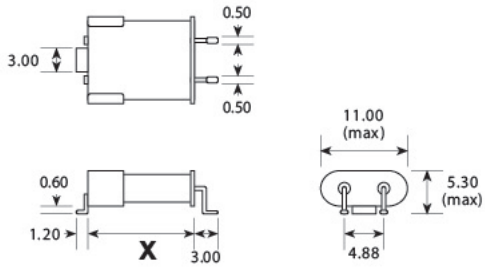
Parameters	Symbol	Specification
Frequency Range	Fo	1.8432 MHz ~ 200 MHz
Operation Mode		1.8432 MHz + Fundamental (see options) 20.0 MHz ~ 100.0 MHz 3rd-overtone (see options) 50.0 MHz ~ 160.0 MHz 5th-overtone (see options) 80.0 MHz ~ 200.0 MHz 7th-overtone (see options)
Operating temperature Range	To	0° to +70°C (see options)
Frequency Tolerance at 25°C	Δf/F	± 10ppm standard (see options)
Temperature Stability	Δf/F	± 10ppm standard (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		1000pcs / reel
Soldering Condition		260°C , 10 sec x2 max
		<b>Customer specifications on request</b>

## OPTIONS & ORDERING INFORMATION

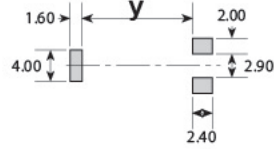
49MJ-	.....	.....	.....	.....	.....	..... MHz	- .....
Version	Freq. Tolerance	Freq. Stability*	Operating Temp.*	Load Capacitance	Mode	Frequency in MHz	ESR if custom required
U = 13.5 mm	05 = ±5 ppm	05 = ±5 ppm	D = -10° / +60°C	Please specify CL in pF or S for Series	F = Fundamental	Please specify the frequency in MHz	Specify a value in Ω
T = 11.0 mm	10 = ±10 ppm	10 = ±10 ppm	E = 0° / +70°C		D = 3rd overtone		
	15 = ±15 ppm	15 = ±15 ppm	F = -20° / +70°C		V = 5th overtone		
	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



SOLDER PAD LAYOUT



case	x
49U MJ	13.46 mm
49T MJ	11.0 mm

case	y
49U MJ	14.00 mm
49T MJ	11.50 mm