

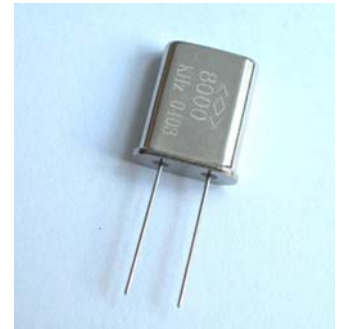


SPECIFICATIONS:

Frequency Range	1.843200~200.000000 MHz
Operating Mode	1.8432~30.0000 Fundamental
	24.0000~75.0000 3rd Overtone
	75.0000~125.0000 5th Overtone
	125.0000~200.0000 7th Overtone
Operating Temp. Range	-10°C~+60°C (Standard)
Storage Temperature	-55°C~+85°C
Frequency Tolerance @ 25°C	±50ppm (Standard)
Frequency Stability Over Temp.	±50ppm (Standard)
Shunt Capacitance	7pF
Load Capacitance	8~32pF, Series (30pF Standard)
Drive Level	10 μ W~2.0mW
Aging @ 25°C	±5 ppm/year

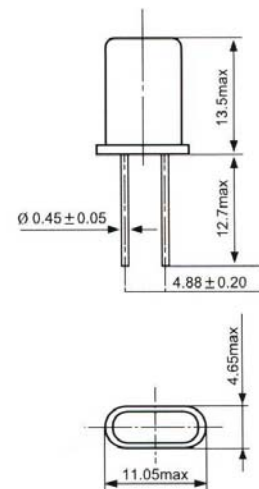
Quartz Crystals

--- Type: 49U



ESR CHART (max):

Frequency Range (MHz)	ESR (Ω)	Frequency Range (MHz)	ESR (Ω)
1.843200~2.000000	500Ω	8.000000~9.999999	40Ω
2.000000~2.999999	400Ω	10.000000~11.999999	30Ω
3.000000~3.579545	200Ω	12.000000~30.000000	25Ω
3.579545~4.000000	120Ω	24.000000~70.000000	60Ω(3rd)
4.000000~4.999999	80Ω	70.000000~120.000000	80Ω(5th)
5.000000~6.999999	60Ω	120.000000~180.000000	150Ω(7th)
7.000000~7.999999	50Ω	180.000000~200.000000	200Ω(7th)



Temperature Range and Stability

	±10ppm	±15 ppm	±20 ppm	±30 ppm	±50 ppm
A0 = 0~+50	○	○	○	○	○
A1 = -10~+60	○	○	○	○	○
A2 = -20~+70	—	—	○	○	○
A3 = -30~+75	—	—	—	○	○
A4 = -40~+85	—	—	—	○	○

ORDER OPTIONS:

Type	Freq. (MHz)	Load Cap. (pF)	Freq. Tolerance (ppm)	Freq. Stability (ppm)	Operating Temp. (°C)	Operating Mode	Package
49U	1.8432 ~ 200.0000	C8~32 S=Series	±10 ±15 ±20 ±30 ±50	±10 ±15 ±20 ±30 ±50	A0 = 0~+50 A1 = -10~+60 A2 = -20~+70 A3 = -30~+75 A4 = -40~+85	F = Fundamental 3R = 3 rd Overtone 5T = 5 th Overtone 7T = 7 th Overtone	T = tape&reel

i.e.: 49U-24.000C18-30/30-A1 -F-T