

HC49US Series



Crystal unit

RoHS & REACH compliant
 Metal can Through hole type quartz crystal unit
 Wide frequency range
 Lower package height options available



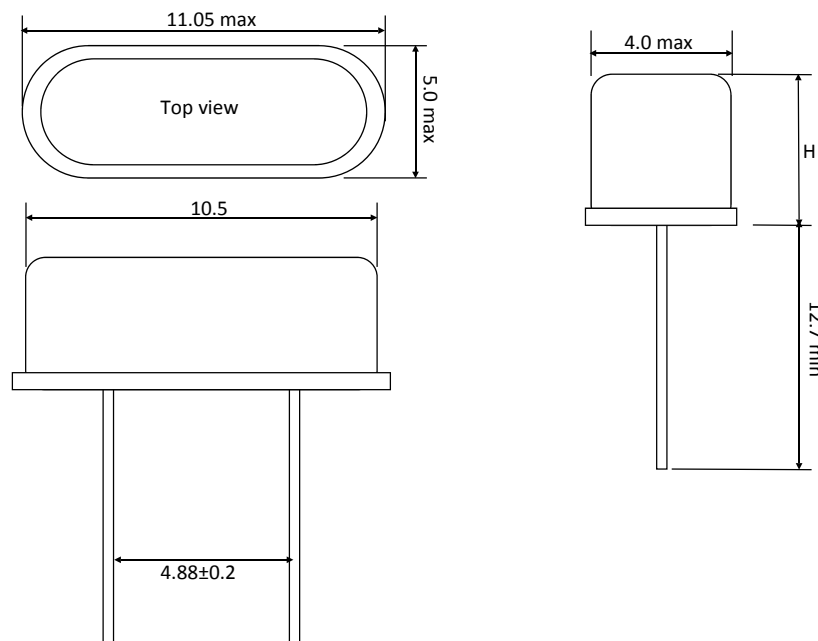
Parameters		Specification	Remarks
Frequency Range	F_nom	3.0MHz ~ 100.0MHz	Table 1
Frequency Tolerance	F_tol	±5.0ppm ~ ±100.0ppm	
Frequency stability over operating temperature range	F_stb	±5.0ppm ~ ±50.0ppm	Table 2
Operating Temperature Range	T_use	-10°C ~ +60°C, -20°C ~ +70°C, -40°C ~ +85°C	Table 2
Storage temperature	T_stg	-55°C ~ +125°C	
Load capacitance	CL	5.0pF ~ 32.0pF, Series	
Equivalent Series Resistance	ESR	Table 1	
Shunt capacitance	C0	7.0pF max	
Drive level	DL	500µW max	100µW typical
Frequency Aging	F_age	±5.0ppm/year at 25°C	
Moisture sensitivity level	MSL	1 (unlimited)	
Electrostatic discharge	ESD	Not applicable	
Insulation resistance	IR	500MΩ min	At 100V DC

Frequency Range	ESR
3.0MHz ~ 3.500MHz	300Ω
3.579545MHz ~ 5.999MHz	150Ω
6.000MHz ~ 7.999MHz	60Ω
8.000MHz ~ 15.999MHz	50Ω
16.000MHz ~ 30.000MHz	30Ω

Frequency Range	ESR
24MHz ~ 29.999MHz	100Ω
30.000MHz ~ 49.999MHz	80Ω
50.000MHz ~ 100.000MHz	60Ω

Temp. (°C)	Stability in ppm				
	±10	±15	±20	±30	±50
-10°C ~ 60°C	√	√	√	√	√
-20°C ~ 70°C	√	√	√	√	√
-40°C ~ 85°C	Enquire	√	√	√	√

Dimensions (mm)



Height (H)	Part code
3.7mm	JO
2.7mm	BH

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ISO9001 Registered

Specifications subject to change without notification

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Part number generation								
JO	2700	G	K	L	GO	F	L	-PF
ACT Series Code (H = height)	Frequency (MHz)	Frequency Tolerance (\pm ppm)	Frequency stability over temperature range (\pm ppm)	Operating Temperature Range ($^{\circ}$ C)	Load capacitance (CL -pF)	Frequency Mode	Packaging (Tape & Reel)	RoHS
H=3.7mm=JO H=2.7mm=BH	8MHz = 0800 27MHz = 2700 Note: Use the first 4 characters of the frequency in Hz i.e. 27MHz =27000000Hz. If the frequency is 100MHz or higher then the first 5 characters are used.	\pm 10 = E \pm 15 = F \pm 20 = G \pm 25 = H \pm 30 = I \pm 50 = L	\pm 10 = F \pm 15 = G \pm 20 = I \pm 25 = J \pm 30 = K \pm 50 = O	-10~+60 = E -20~+70 = G -30~+85 = L -40~+85 = M	8 = GO 9 = JO 10 = KO 11 = MO 12 = OO 13 = YO 14 = ZO 15 = PO 16 = RO 18 = TO 20 = VO 22 = WO 30 = DA SR = SR	Fundamental = F 3 rd OT = A	Loose = L	RoHS = -pF
Note: It is important to suffix the above part number with full frequency required to give a completed part number as illustrated below. Full Example Part Number : JO0800GKLGOF-L-PF [8.000MHz], JO2700GKLGOF-L-PF [27.000MHz] , JO2457GKLGOF-L-PF [24.576MHz]								

Additional information

Enquire us for following options availability:
 With insulating washer
 Cropped leads
 Ammo Pack
 Tape and Reel

Drawing control: (Internal use only)
 Commodity code: 854160 00 00
 Issue number: 1
 Date: 1/2/2017
 Internal reference: SCB