HC49USM Series



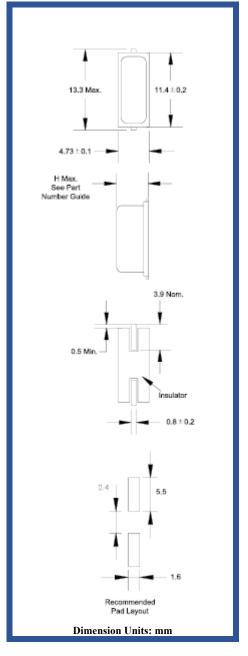
Product Feature:

Low Cost SMD Package Low ESR Compatible with Leadfree Processing

Applications:

Fibre Channel Server & Storage Sonet /SDH 802.11 / Wifi T1/E1.T3/E3 System Clock

Frequency	3.2 MHz to 100 MHz		
ESR (Equivalent Series			
Resistance)			
ŕ			
3.2 MHz - 3.49 MHz	300 Ω Max.		
3.5 MHz - 3.99 MHz	200 Ω Max.		
4.0 MHz - 4.99 MHz	150 Ω Max.		
5.0 MHz - 5.99 MHz	120 Ω Max.		
6.0 MHz - 6.99 MHz	100 Ω Max.		
7.0 MHz - 8.9 MHz	80 Ω Max.		
9.0 MHz - 12.9 MHz	60 Ω Max.		
13 MHz- 19.9 MHz	40 Ω Max.		
20 MHz - 36 MHz	30 Ω Max.		
36 MHz – 100.0 MHz (3rd O.T.)	100 Ω Max.		
Shunt Capacitance (C0)	7 pF Max.		
Frequency Tolerance @ 25° C	±30 ppm Standard		
ricquency relevance @ 20 0	(see Part Number Guide for more options)		
5 04 1 1111	` ' '		
Frequency Stability over	±50 ppm Standard		
Temperature	(see Part Number Guide for more options)		
Crystal Cut	AT Cut		
Load Capacitance	18 pF Standard		
	(see Part Number Guide for more options)		
Delice Level	1 mW Max		
Drive Level	1 mvv Max.		
Aging	±5 ppm Max. / Year Standard		
Temperature			
remperature			
Operating	•		
	(see Part Number Guide for more options)		
Storage	-40° C to +85° C Standard		
Giorage	-40 Cito 100 C Standard		



art Number Guide	Sample Part Number: HC49USM - FB1F18 - 20.000						
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency	
HC49USM- (4.5 mm H) HC49USM2- (3.5 mm H) HC49USM3- (3.1 mm H)-	B = ±50ppm	$A = \pm 100 ppm$ $B = \pm 50 ppm$	0 = 0°C to +50°C	F = Fundamental			
	F = ±30ppm	F = ±30ppm	1 = 0°C to +70°C	3 = Third Overtone	10= F Ct===d===d		
	G = ±25ppm	G = ±25ppm	2 = -10°C to +60°C		18pF Standard Or Specify	-20.000 MHz	
	$H = \pm 20ppm$	H = ±20ppm	3 = -20°C to +70°C		Or Specify		
	I = ±15ppm	I = ±15ppm	5 = -40°C to +85°C				
	$J = \pm 10ppm^*$	J = ±10ppm	9 = -10°C to +50°C				

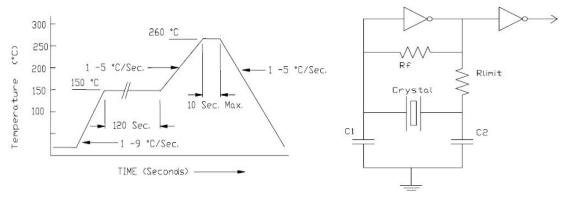
^{*} Not available at all frequencies.

HC49USM Series



Pb Free Solder Reflow Profile:

Typical Circuit:



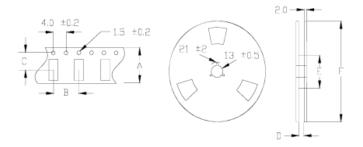
^{*}Units are backward compatible with 240C reflow processes

Package Information:

MSL = N/A

Termination = e4 (Sn / Cu/ Ag over Ni over Kovar base metal).

Tape and Reel Information:



Α	24 +/- 0.3
В	12 +/- 0.2
С	11.5 +/- 0.2
D	25 +/- 1.5
E	80/100
F	330
QTY per Reel	1000

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Crystals category:

Click to view products by Abracon manufacturer:

Other Similar products are found below:

MC405 32.0000K-R3:PURE SN 7B-27.000MBBK-T MP1-8.0 99-BU 9B-15.360MBBK-B PTX-A2JM-10.000M 9C-7.680MBBK-T H10S-12.000-18-EXT-TR R38-32.768-12.5-5PPM-NPB BTD1062E05A-513 21U15A-21.4MHZ RTX-781DF1-S-20.950 LFXTAL066198Cutt 9C-14.31818MBBK-T A-11.000MHZ-27 SPT2A-.032768B SPT2A.032768G SSPT7F-9PF20-R FX325BS-38.88EEM1201 MP-1-25.000MHZ-3L MP-1-6.000MHZ LFXTAL065253Cutt LFXTAL066431Cutt XT9S20ANA14M7456 XT9SNLANA16M 646G-24-2 7B-30.000MBBK-T 6504-202-1501 6526-202-1501 BTJ120E02C SG636PCE-20.000MC 3404 C1E-24.000-7-2020-R C1E-19.200-12-1530-X-R C1E-16.000-12-1530-X-R FL5000014 EUCA18-3.1872M 425F35E027M0000 17196 MS3V-T1R-32.768kHz-7pF-20PPM-TA-QC-Au VXM7-1C1-16M000 MS1V-T1K-32.768kHz-10pF-20PPM-TA-QC-Au MS1V-T1K-32.768kHz-12.5pF-20PPM-TA-QC-Au MS3V-T1R-32.768kHz-9pF-20PPM-TA-QC-Au 17000 17301 16875 ECS-80-18-30B-JEM-TR ECS-100-10-30B-CKL-TR MS1V-T1K-32.768kHz-6pF-20PPM-TA-QC-Au QC-Au