

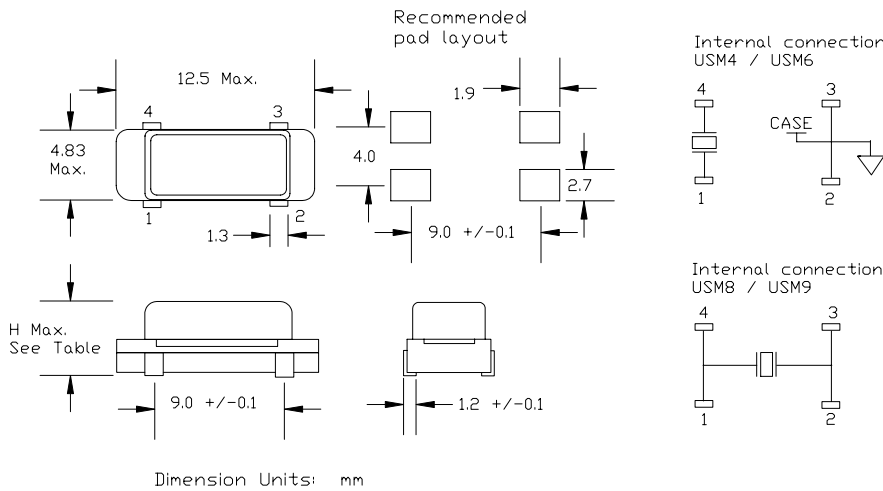


SMD Crystal, AT cut or BT cut
4 Pad Metal Package, 4.8 mm x 12.5 mm

HC49USM4 Series

Frequency Range (MHz)	3.2 – 3.49	3.5 – 3.99	4.0 – 4.99	5.0 – 5.99	6.0 – 6.99	7.0 – 8.9	9.0 – 12.9	13 – 19.9	20 - 36	27 – 100*
Equivalent Series Resistance (Ω, AT cut)	300	200	150	120	100	80	60	40	30	100*
Shunt Capacitance (C0)	7 pF Max.									
Frequency Tolerance	± 30 ppm Standard (see Appendix A for more options)									
Frequency Stability over Temperature	± 50 ppm Standard (see Appendix A for more options)									
Crystal Cut	AT Cut Standard, BT Cut Available for some Frequencies									
Load Capacitance	18 pF Standard (see Appendix A for more options)									
Drive Level	1 mW Max.									
Aging	± 5 ppm Max. / Year Standard									
Temperature										
Operating	0° C to +70° C Standard (see Appendix A for more options)									
Storage	-40° C to +85° C Standard									
Environmental / Tape and Reel	See Appendix B for Environmental information, Appendix C for Tape and Reel information									
Package Information	MSL = 2., Termination = e1									

* - 3rd Overtone Vibrational Mode



H = Height	
HC49USM4	5.2 mm Max.
HC49USM6	4.5 mm Max.
HC49USM8	5.2 mm Max.
HC49USM9	4.5 mm Max.

Part Number Guide		Sample Part Number: HC49USM4 - FB1F18 - 20.000				
Package	Frequency Tolerance	Frequency Stability	Operating Temp.	Mode	Load Capacitance	Frequency
HC49USM4 -	F = ± 30 ppm	B = ± 50 ppm	1 = 0° C to +70° C	F = Fundamental	18 = 18 pF	- 20.000 MHz