



Fundamental Mode

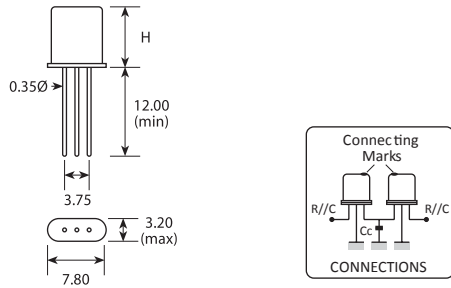
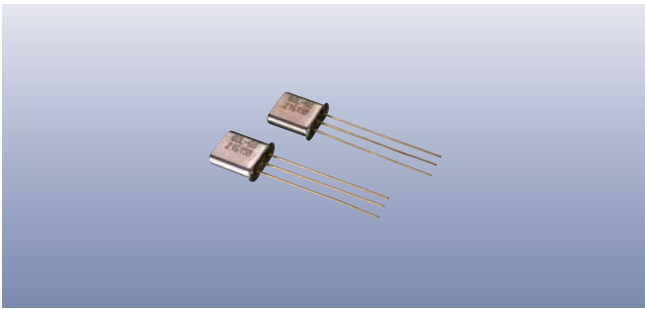
Model Number	Centre Frequency (MHz)	Number of Poles	Pass Band dB @ kHz	Attenuation Band dB @ kHz	In-Band Ripple (dB)	Insertion Loss (dB)	Guaranteed Attenuation (dB @ kHz)	Termination (Ω // pF)	Package Style
45G7A1	45.000	2	3 \pm 3.75	10 \pm 12.5	1.0	2.5	65 \pm 910	300 // 10.0	UM-1/3L
45G7B1	45.000	4	3 \pm 3.75	30 \pm 12.5	1.0	4.0	90 \pm 910	300 // 8.0 ($C_c=20\text{pF}$)	UM-1/3Lx2
45G15A1	45.000	2	3 \pm 7.5	15 \pm 25.0	1.0	2.0	35 +500 ~ +1000 40 -200 ~ -1000	650 // 4.5	UM-1/3L
45G15B1	45.000	4	3 \pm 7.5	30 \pm 25.0	1.0	3.0	70 +500 ~ +1000 70 -200 ~ -1000	650 // 1.5 ($C_c=9.0\text{pF}$)	UM-1/3Lx2
45G20A1	45.000	2	3 \pm 10.0	15 \pm 34.0	1.0	2.0	35 +500 ~ +1000 40 -200 ~ -1000	700 // 2.5	UM-1/3L
45G20B1	45.000	4	3 \pm 10.0	40 \pm 48.0	1.0	3.0	70 +500 ~ +1000 70 -200 ~ -1000	700 // 1.5 ($C_c=6.5\text{pF}$)	UM-1/3Lx2
45G30A1	45.000	2	3 \pm 15.0	15 \pm 50.0	1.0	2.0	35 +600 ~ +1000 35 -500 ~ -1000	800 // 1.5	UM-1/3L
45G30B1	45.000	4	3 \pm 15.0	40 \pm 60.0	1.0	3.0	70 +500 ~ +1000 70 -300 ~ -1000	800 // 1.0 ($C_c=5.0\text{pF}$)	UM-1/3Lx2

3rd Overtone Mode

Model Number	Centre Frequency (MHz)	Number of Poles	Pass Band dB @ kHz	Attenuation Band dB @ kHz	In-Band Ripple (dB)	Insertion Loss (dB)	Guaranteed Attenuation (dB @ kHz)	Termination (Ω // pF)	Package Style
45G7A3	45.000	2	3 \pm 3.75	10 \pm 12.5	1.0	2.0	35 \pm 910	2500 // -0.5	UM-1/3L
45G7B3	45.000	4	3 \pm 3.75	30 \pm 12.5	1.0	3.0	65 \pm 300 ~ \pm 1000	2000 // -0.5 ($C_c=1\text{pF}$)	UM-1/3Lx2
45G15A3	45.000	2	3 \pm 7.5	18 \pm 28.0	1.0	2.0	35 +500 ~ +1000 35 -200 ~ -1000	4000 // -1.0	UM-1/3L
45G15B3	45.000	4	3 \pm 7.5	40 \pm 30.0	1.0	3.0	70 +500 ~ +1000 70 -200 ~ -1000	4000 // -1.0 ($C_c=1.0\text{pF}$)	UM-1/3Lx2
45G20A3	45.000	2	3 \pm 10.0	15 \pm 30.0	1.0	2.0	35 +500 ~ +1000 35 -200 ~ -1000	5000 // -1.0	UM-1/3L
45G20B3	45.000	4	3 \pm 10.0	35 \pm 40.0	1.0	3.0	70 +500 ~ +1000 70 -200 ~ -1000	5000 // -1.0 ($C_c=1.5\text{pF}$)	UM-1/3Lx2
45G30A3	45.000	2	3 \pm 15.0	15 \pm 50.0	1.0	2.0	30 +500 ~ +1000 30 -300 ~ -1000	8000 // -1.0	UM-1/3L
45G30B3	45.000	4	3 \pm 15.0	30 \pm 60.0	1.0	3.0	70 +500 ~ +1000 70 -300 ~ -1000	8000 // -1.0 ($C_c=1.5\text{pF}$)	UM-1/3Lx2

- ◆ Operating temperature range of -20 to +70°C.
- ◆ Most UM-1 models also available in UM-5
- ◆ Formed leads and jacket SM option for UM-1 & UM-5

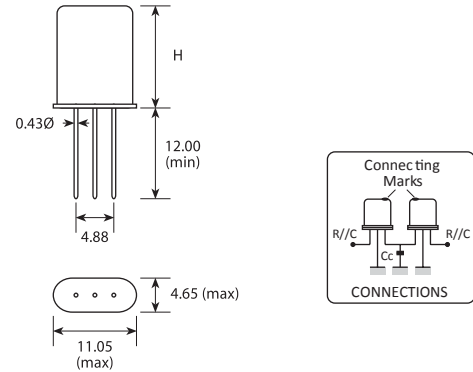
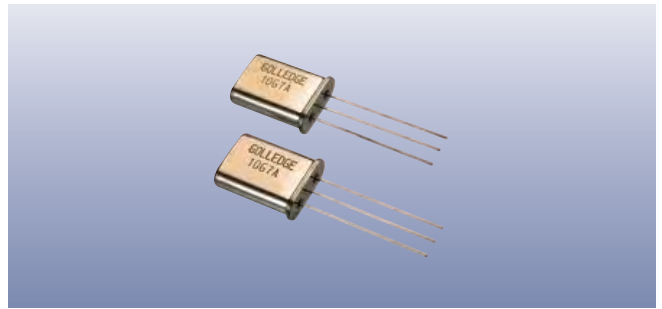
UM-1/3L & UM-5/3L



Package	Height H
UM-1/3L	8.00 max
UM-5/3L	6.00 max

UM-1/3Lx2 is a pair of UM-1/3Ls connected as shown.

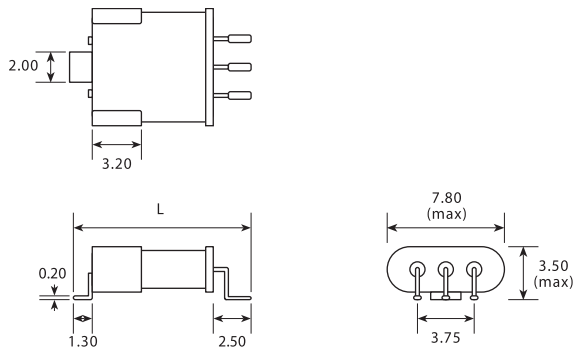
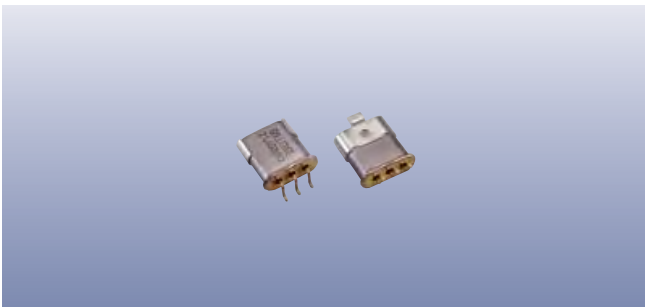
HC49/3L & HC49T/3L



Package	Height H
HC49	13.46 max
HC49T	11.70 max

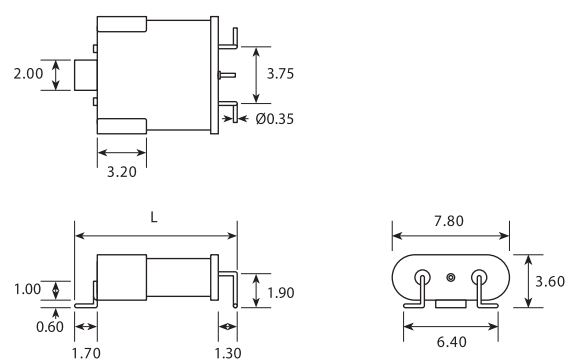
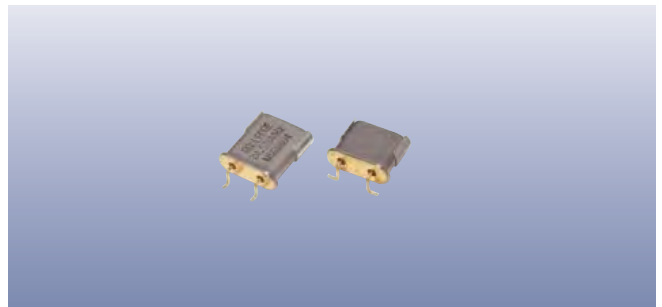
HC49/3Lx2 is a pair of HC49/3Ls connected as shown.

UM-1JN/3L & UM-5JN/3L



Package	Length L
UM-1JN/3L	12.50 max
UM-5JN/3L	10.50 max

UM-1JC/3L & UM-5JC/3L



Package	Length L
UM-1JC/3L	11.10 max
UM-5JC/3L	9.00 max