10.7MHz Monolithic Crystal Filters

GMCF-10

12.5kHz Channel Spacing

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
10G7A	10.700	2	3 ±3.75	20 ±18.0	0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	1800 // 6.0	HC49/3L
10G7B	10.700	4	3 ±3.75	40 ±14.0	1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	1800 // 5.0 (C_C=11.0pF)	HC49/3Lx2
10G7C	10.700	6	3 ±3.75	65 ±12.5	2.0	3.5	65 ±12.5 ~ ±300	1800 // 5.0	F15/12B
10G7D	10.700	8	3 ±3.75	90 ±12.5	2.0	4.0	90 ±12.5 ~ ±300	1800 // 5.0	F18/12P

20.0kHz Channel Spacing

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
10G12A	10.700	2	3 ±6.0	20 ±25.0	0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	3300 // 1.5	HC49/3L
10G12B	10.700	4	3 ±6.0	40 ±20.0	1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	3300 // 1.5 (C_C=6.0pF)	HC49/3Lx2
10G12C	10.700	6	3 ±6.0	65 ±20.0	2.0	3.0	65 ±20.0 ~ ±300	3300 // 2.0	F15/12B
10G12D	10.700	8	6 ±6.0	90 ±20.0	2.0	3.5	90 ±20.0 ~ ±300	3300 // 2.0	F18/12P

25.0kHz Channel Spacing

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
10G15A	10.700	2	3 ±7.5	18 ±25.0	0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	3000 // 2.0	HC49/3L
10G15B	10.700	4	3 ±7.5	40 ±25.0	1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	3000 // 2.0 (C_C=5.0pF)	HC49/3Lx2
10G15C	10.700	6	3 ±7.5	65 ±25.0	2.0	3.0	65 ±25.0 ~ ±300	3300 // 1.5	F15/12B
10G15D	10.700	8	6 ±7.5	90 ±25.0	2.0	3.5	90 ±25.0 ~ ±300	3300 // 1.5	F18/12P

35.0kHz Channel Spacing

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
10G20A	10.700	2	3 ±10.0	18 ±34.0	0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	3900 // 1.0	HC49/3L
10G20B	10.700	4	3 ±10.0	40 ±34.0	1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	3900 // 1.0 (C_C=3.0pF)	HC49/3Lx2
10G20C	10.700	6	3 ±10.0	60 ±34.0	2.0	3.0	60 ±34.0 ~ ±300	3900 // 1.0	F15/12B
10G20D	10.700	8	6 ±10.0	80 ±30.0	2.0	3.5	80 ±30.0 ~ ±300	3900 // 1.0	F18/12P

50.0kHz Channel Spacing

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
10G30A	10.700	2	3 ±15.0	15 ±50.0	0.5	1.5	30 +300 ~ +1000 35 -300 ~ -1000	5000 // 0	HC49/3L
10G30B	10.700	4	3 ±15.0	30 ±40.0	1.0	2.5	65 +300 ~ +1000 80 -250 ~ -1000	5000 // -1.0 (C_C=0.5pF)	HC49/3Lx2
10G30C	10.700	6	3 ±15.0	60 ±45.0	2.0	2.5	60 ±45.0 ~ ±300	5000 // -1.0	F15/12B
10G30D	10.700	8	6 ±15.0	80 ±40.0	2.0	3.0	80 ±40.0 ~ ±300	5000 // -1.0	F18/12P

- Operating temperature range of -20 to +70°C.
- Most HC49 models also available in HC49/T

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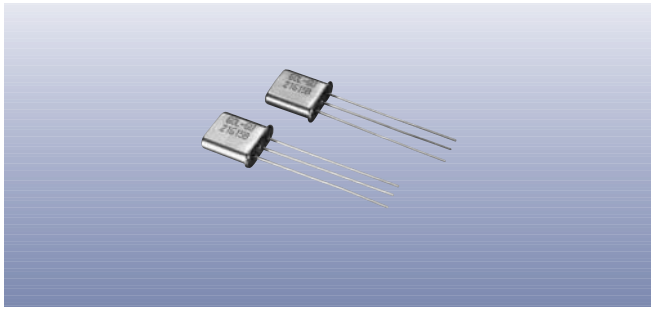
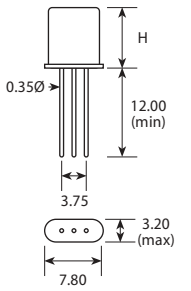
Golledge

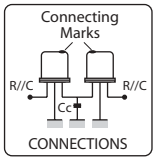
06 Mar 2000

Package Drawings

UM-1/3L, UM-4/3L & UM-5/3L





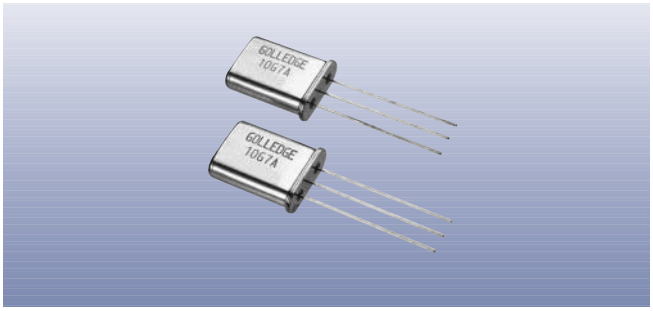


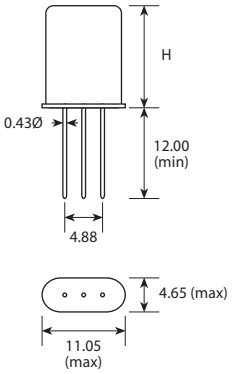
Package	Height H
UM-1/3L	8.00 max
UM-4/3L	4.80 max
UM-5/3L	6.00 max

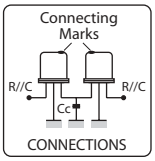
UM-1/3Lx2 is a pair of UM-1/3Ls connected as shown.

Scale 1:1

HC49/3L & HC49T/3L





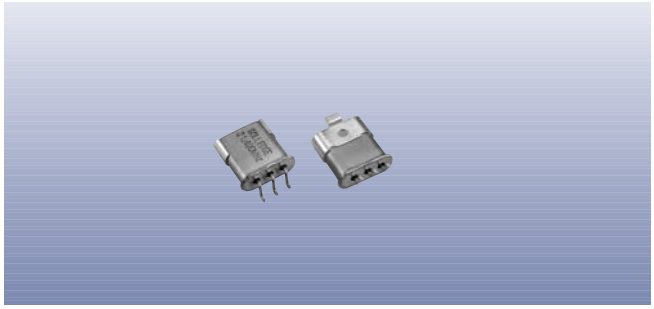


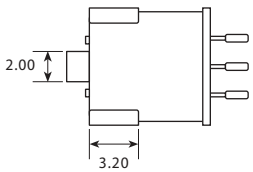
Package	Height H
HC49	13.46 max
HC49T	11.70 max

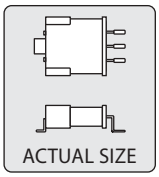
HC49/3Lx2 is a pair of HC49/3Ls connected as shown.

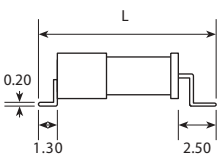
Scale 1:1

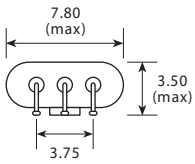
UM-1JN/3L, UM-4JN/3L & UM-5JN/3L







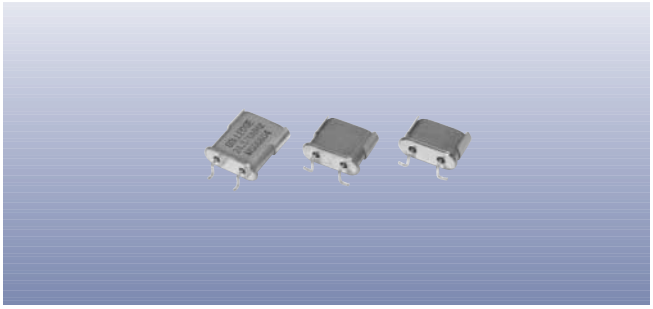


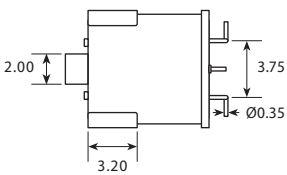


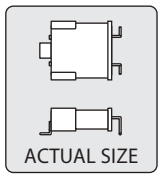
Package	Length L
UM-1JN/3L	12.50 max
UM-4JN/3L	9.30 max
UM-5JN/3L	10.50 max

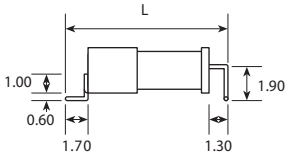
Scale 2:1

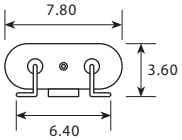
UM-1JC/3L, UM-4JC/3L & UM-5JC/3L









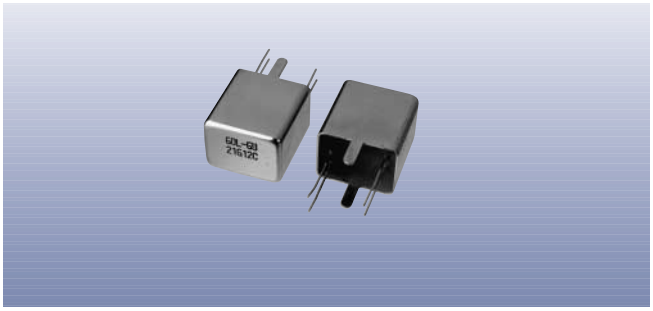


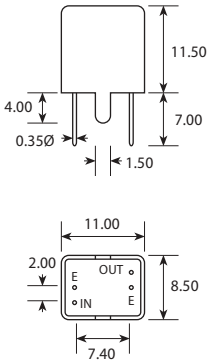
Package	Length L
UM-1JC/3L	11.10 max
UM-4JC/3L	7.80 max
UM-5JC/3L	9.00 max

Scale 2:1

Package Drawings

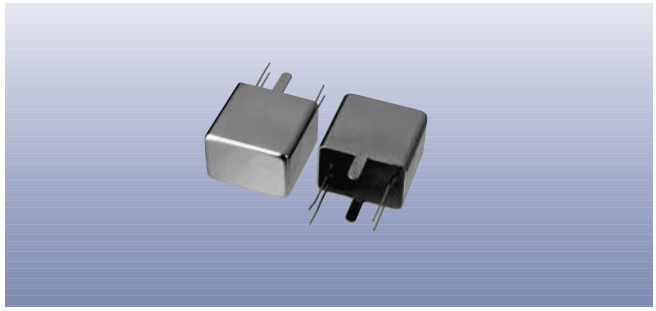
F11/8A

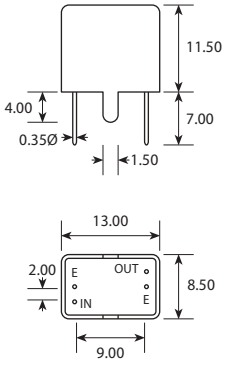




Scale 1:1

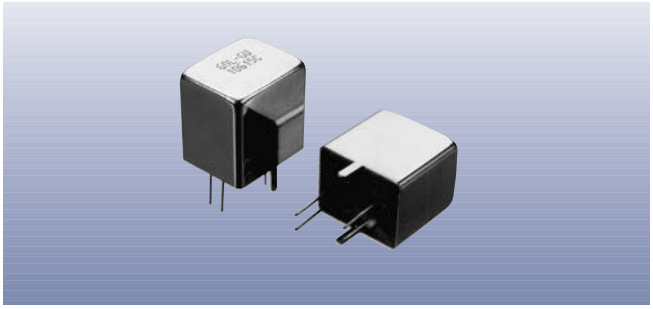
F13/8A

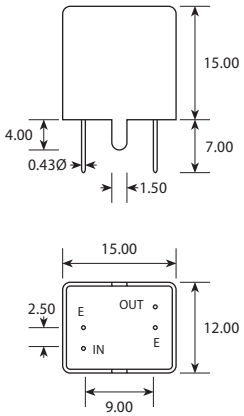




Scale 1:1

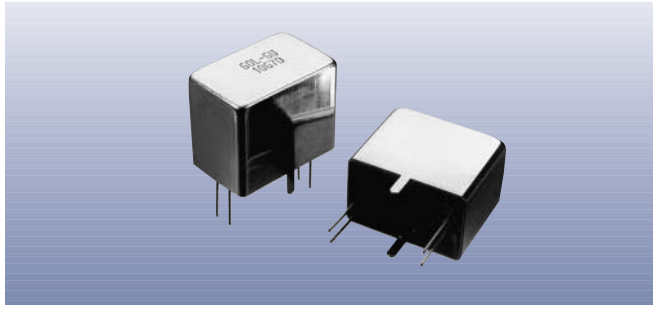
F15/12B

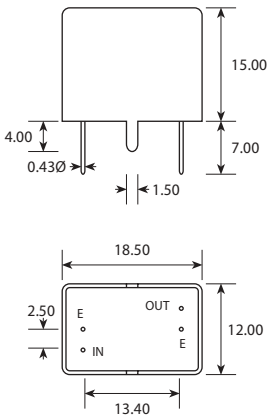




Scale 1:1

F18/12P





Scale 1:1