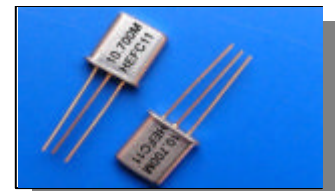




FILTER UNIT
MONOLITHIC CRYSTAL FILTERS
 HEFC11 –HC-49U- 3F & UM-1/UM-5 3F



FEATURES

- 2 and 4 Poles
- 3-Lead Packages
- Multiple Package Available

ALTERNATIVE CODE

- A for UM-1-3F
- B for UM-5-3F
- C for HC-49U-3F

NOMINAL FREQUENCY MHz	MODEL	NO. of POLES	PASS BAND WIDTH dB(kHz)	ATTENUATION BAND WIDTH dB(kHz)	RIPPLE dB	INSERTION LOSS dB	GUARANTEED ATTENUATION dB	TERMINATING IMPEDANCE K // pF
10.700	10M7.5A	2	3(± 3.75)	20(± 18)	0.5	2.0	30	1.5//5.0
10.700	10M7.5B	4	3(± 3.75)	40(± 21)	1.0	2.5	40	1.5//5.0
10.700	10M12A	2	3(± 6.0)	18(± 23)	0.5	2.0	20	2.5//2.5
10.700	10M12B	4	3(± 6.0)	40(± 20)	1.0	2.5	40	1.5//2.0
10.700	10M14A	2	3(± 6.5)	18(± 25)	0.5	1.5	30	2.4//1.9
10.700	10M15A	2	3(± 7.5)	18(± 25)	0.5	2.0	20	3.0//2.0
10.700	10M15B	4	3(± 7.5)	40(± 25)	1.0	2.5	50	3.0//2.0
10.700	10M20A	2	3(± 10)	18(± 34)	0.5	2.0	20	3.9//0
10.700	10M20B	4	3(± 10)	40(± 34)	1.0	2.5	40	3.9//0
10.700	10M30A	2	3(± 15)	15(± 50)	1.0	2.0	15	5.0//0
10.700	10M30B	4	3(± 15)	25(± 40)	0.5	2.5	30	5.5/-1
21.400	21M7.5A	2	3(± 3.75)	18(± 14)	0.5	2.0	20	0.85//5
21.400	21M7.5B	4	3(± 3.75)	40(± 14)	1.0	2.5	40	0.85//5
21.400	21M12A	2	3(± 6.0)	18(± 23)	0.5	2.0	20	1.2//2.5
21.400	21M12B	4	3(± 6.0)	40(± 20)	1.0	2.5	40	1.2//2.5
21.400	21M15A	2	3(± 7.5)	18(± 25)	0.5	1.5	20	1.5//2.0
21.400	21M15B	4	3(± 7.5)	40(± 25)	1.0	2.0	40	1.5//2.0
21.400	21M20A	2	3(± 10)	18(± 34)	0.5	1.5	20	2.2//1
21.400	21M20B	4	3(± 10)	40(± 34)	1.0	2.0	40	2.2//1
21.400	21M30A	2	3(± 15)	15(± 50)	0.5	1.5	20	3.0//0
21.400	21M30B	4	3(± 15)	30(± 45)	1.0	2.0	40	3.0//0
45.000	45M15A	2	3(± 3.75)	18(± 28)	1.0	2.0	40	3.0//1.5
45.000	45M15B	4	3(± 3.75)	40(± 30)	1.0	3.0	70	3.0//1
45.000	45M20B	4	3(± 10)	30(± 35)	1.0	3.0	70	5.0//1.0
45.000	45M30A	2	3(± 15)	18(± 32)	1.0	2.0	40	8.0//1.5
45.000	45M30B	4	3(± 15)	30(± 50)	1.0	3.0	70	8.0//1.5

Operating Temperature Range: -20 ~70

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