

Monolithic Filters

10.7 MHz

To Order

001-38700 - $\frac{C}{2}$
1 2

1. Part Number
2. Case Type

Monitor manufactures standard monolithic crystal filters in a complete range of frequencies, including 5.26, 6.46, 10.7, 16.9 and 21.4 MHz. Detailed specifications are given here for 10.7 MHz filters with channel spacings of 12.5, 20.0, 25.0 and 50.0 KHz. For specifications and information about other frequencies, please contact Monitor.

12.5 KHz Channel Spacing

Part Number	Pole	Passband ¹		Stopband				Loss dB	Spurious dB (min)	Ult. Rej. dB (min)	Term ² (Rp//Cp) Ohm/pF	Case Type(s) ³
		dB	KHz	dB	KHz	dB	KHz					
001-38600	2	3	± 3.75	20	± 18.0	-	-	2.0	20	50	1.5K//4	A
001-38620	4	3	± 3.75	40	± 14.0	-	-	3.0	35	70	1.5K//3	A (x 2) ⁴ , B, C
001-38640	6	6	± 3.75	60	± 12.5	-	-	3.5	60	80	1.5K//2	A (x 3) ⁴ , B, C
001-38660	8	6	± 3.75	60	± 10.0	90	± 12.5	4.0	80	90	1.5K//2	A (x 4) ⁴ , C

20.0 KHz Channel Spacing

Part Number	Pole	Passband ¹		Stopband				Loss dB	Spurious dB (min)	Ult. Rej. dB (min)	Term ² (Rp//Cp) Ohm/pF	Case Type(s) ³
		dB	KHz	dB	KHz	dB	KHz					
001-38680	2	3	± 6.5	20	± 30.0	-	-	1.0	15	50	2.7K//0	A
001-38700	4	3	± 6.5	30	± 15.0	-	-	2.0	35	75	3.1K//0	A (x 2) ⁴ , B, C
001-38720	6	6	± 6.5	60	± 19.5	-	-	3.0	60	90	3.1K//0	A (x 3) ⁴ , B, C
001-38740	8	6	± 6.5	60	± 13.0	80	± 17.5	3.0	80	100	3.1K//0	A (x 4) ⁴ , C

25.0 KHz Channel Spacing

Part Number	Pole	Passband ¹		Stopband				Loss dB	Spurious dB (min)	Ult. Rej. dB (min)	Term ² (Rp//Cp) Ohm/pF	Case Type(s) ³
		dB	KHz	dB	KHz	dB	KHz					
001-38760	2	3	± 7.5	20	± 35.0	-	-	1.0	15	50	3.0K//0	A
001-38700	4	3	± 7.5	30	± 17.5	-	-	2.0	35	75	3.5K//0	A (x 2) ⁴ , B, C
001-38880	6	6	± 7.5	60	± 22.5	-	-	3.0	60	90	3.5K//0	A (x 3) ⁴ , B, C
001-38820	8	6	± 7.5	60	± 15.0	80	± 20.0	3.0	80	100	3.5K//0	A (x 4) ⁴ , C

50.0 KHz Channel Spacing

Part Number	Pole	Passband ¹		Stopband				Loss dB	Spurious dB (min)	Ult. Rej. dB (min)	Term ² (Rp//Cp) Ohm/pF	Case Type(s) ³
		dB	KHz	dB	KHz	dB	KHz					
001-38840	2	3	± 15.0	20	± 70.0	-	-	1.0	10	35	5.0K//0	A
001-38860	4	3	± 15.0	30	± 35.0	-	-	2.0	30	60	5.0K//0	A (x 2) ⁴ , B, C
001-38880	6	6	± 15.0	60	± 45.0	-	-	3.0	60	90	5.0K//0	A (x 3) ⁴ , B, C
001-38900	8	6	± 15.0	60	± 30.0	80	± 40.0	3.0	80	100	5.0K//0	A (x 4) ⁴ , C

Notes:

1. Maximum passband ripple over operational temperature range -30°C to +80°C is: 2 pole, 1.0 dB; 4, 6, 8 poles, 2.0 dB.
2. Parallel termination capacity is adjusted for optimum filter response. Nominal parallel capacity (Cp) ± 3.0 pF. Impedance (Rp): as specified above.
3. See Pg 9 for package dimensions.
4. Multiple cases required:
 (x 2) indicates that 2 cases are required for 4 pole responses.
 (x 3) indicates that 3 cases are required for 6 pole responses.
 (x 4) indicates that 4 cases are required for 8 pole responses.