

Discrete Crystal Filters

9 MHz Standard series

Type:	XF-9A	XF-9B	XF-9B01	XF-9B02	XF-9B10
Frequency (MHz):	9.0		8.9985	9.0015	9.0
Application:	ESB, SSB, BLU		USB, LSB, BLI	OSB, USB, BLS	ESB, SSB, BLU
6 dB-bandwidth (kHz):	± 1.25	± 1.2			
Insertion loss max.(dB):	3.0	3.5			4.0
Ripple max.(dB):	1.0	2.0			
Shape factor (dB - kHz): (dB - kHz):	6:60 = 1:2.5 6:80 = 1:3.5	6:60 = 1:1.8 6:80 = 1:2.2			6:60 = 1:1.5 6:80 = 1:1.8
Number of poles	6	8	8	8	10
Ultimate attenuation dB:	> 90				
Termination (Ω // pF):	500 // 30				
Case style:	BF-1				
Temperature range:	- 20°C ... + 70°C				

9 MHz Standard series

Type:	XF-9B11	XF-9B12	XF-9E	XF-9NB	XF-9P
Frequency (MHz):	8.9985	9.0015	9.0	9.0	9.0
Application:	USB, LSB, BLI	OSB, USB, BLS	FM	CW	
6 dB-bandwidth (kHz):	± 1.2		± 6.0	± 0.25	± 0.125
Insertion loss max.(dB):	4.0		3.5	6.5	7.5
Ripple max.(dB):	2.0			1.0	
Shape factor (dB - kHz): (dB - kHz):	6:60 = 1:1.5 6:80 = 1:1.8		6:60 = 1:1.8 6:80 = 1:2.2	6:60 = 1:2.2 6:80 = 1:4.0	
Number of poles	10	10	8	8	8
Ultimate attenuation dB:	> 90				> 100
Termination (Ω // pF):	500 // 30		1200 // 30	500 // 30	
Case style:	BF-1				
Temperature range:	- 20°C ... + 70°C			-10°C..+60°C	0°C.+50°C



VECTRON
INTERNATIONAL
A  TECHNOLOGIES COMPANY

P.O.Box 61
D-74922 Neckarbischofsheim
Waibstadter Strasse 2-4
D-74924 Neckarbischofsheim

Tel.: 49(0)7263-648-0
Fax.: 49(0)7263-6196
e-mail: kvg_gmbh@t-online.de
http://www.nase.de/kvg_gmbh

Discrete Crystal Filters

Carrier Crystals for 9 MHz Standard Filters

Type for case HC 50/U:	XF-900	XF-901	XF-902	XF-903	XF-904
Type for case HC 49/U:	XF-900L	XF-901L	XF-902L	XF-903L	XF-904L
For Filters:	XF-9B01 XF-9B02 XF-9S06	XF-9A XF-9B XF-9B10	XF-9A XF-9B XF-9B10	XF-9M XF-9NB XF-9P	XF-9M XF-9NB XF-9P
Frequency (MHz):	9.000	8.9985	9.0015	9.001	8.999

10.7 MHz Standard series

Type:	XF-107A	XF-107B	XF-107C	XF-107D	XF-107E
Channel spacing	20	25	50		
3 dB-bandwidth (kHz):	± 6	± 7.5	± 15	± 18	± 20
Insertion loss max.(dB):	3.5		4.5		
Ripple max.(dB):	2.0				
Stopband attenuation (dB / kHz) (dB /- kHz):	>70 / ± 14.5 >90 / ± 17	>70 / ± 17 >90 / ± 22	>70 / ± 33 >90 / ± 40	>70 / ± 35 >90 / ± 45	>70 / ± 40 >90 / ± 50
Number of poles	8				
Ultimate attenuation dB:	> 90				
Termination (Ω // pF):	820 // 25	910 // 25	2000 // 25	2700 // 25	3000 // 25
Case style:	BF-1				
Temperature ranges Operating: Operable: Storage:	- 20°C ... + 70°C - 40°C ... + 80°C - 55°C ... + 105°C				
Max. input power	1.0 mW				



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e-mail: kvg_gmbh@t-online.de
http://www.nase.de/kvg_gmbh