

## THROUGH HOLE TYPE CRYSTAL FILTERS

### UM Resistance Weld

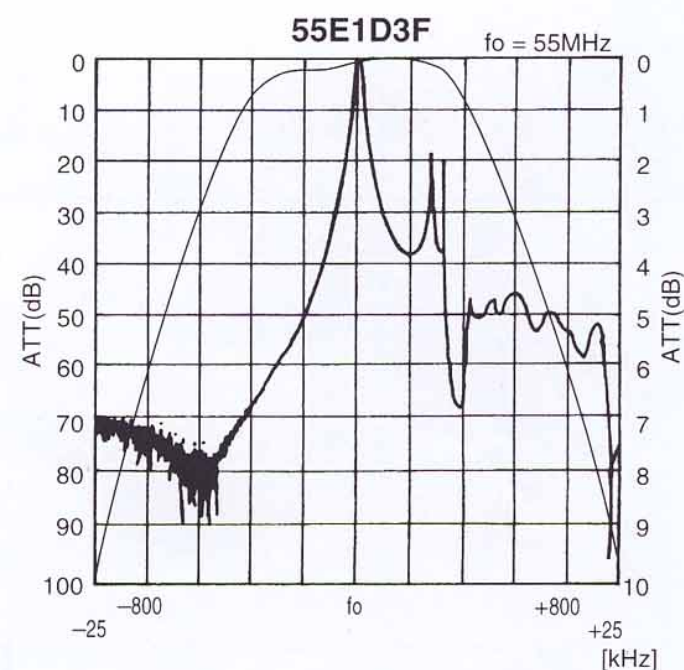
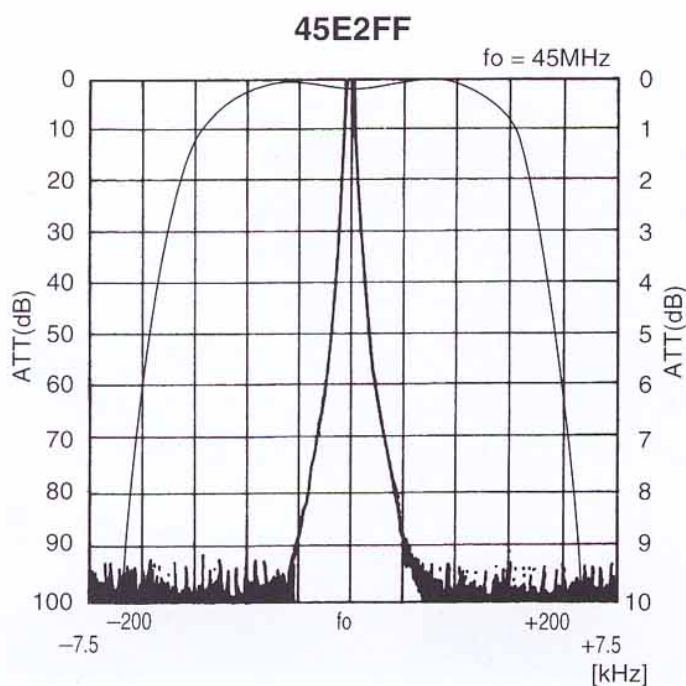
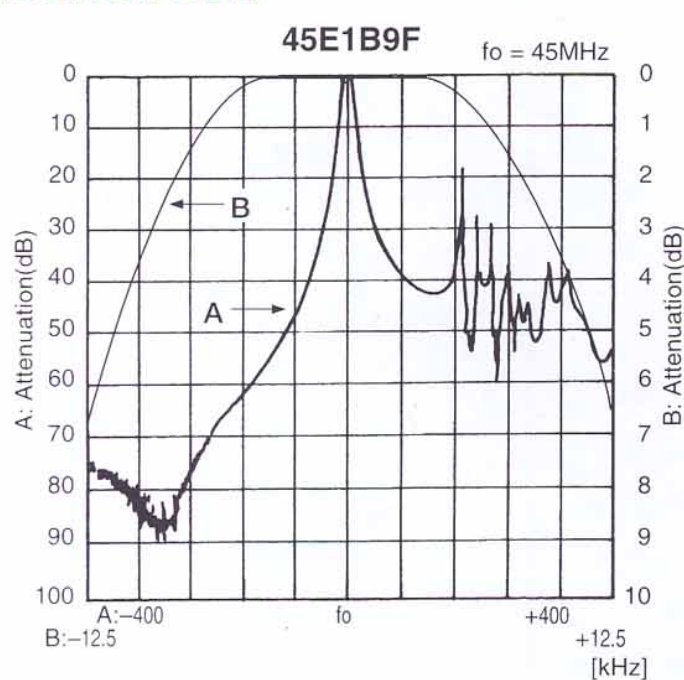
#### VHF 45MHz/55MHz [Fundamental Mode]

Type	Nominal frequency [fo(MHz)]	Number of poles	Passband	Stopband	Max ripple (dB)	Max loss (dB)	Guaranteed attenuation (dB) (kHz)	Terminating impedance Zt(Ω//pF)	Coupling impedance Zc(pF)	Holder
			(dB) (kHz)	(dB) (kHz)						
45E1FF	45	2	3 ±3.75	10 ±12.5	1	2	65 -910	200//4	—	UM-1SLIM
45E2FF	45	4	3 ±3.75	30 ±12.5	1	4	90 ±910	350//6.5	18	(UM-1SLIM)×2
45E1B9F	45	2	3 ±7.5	15 ±25	1	2	65 -910	650//3	—	UM-4SLIM
45E2B9F	45	4	3 ±7.5	30 ±25	1	3	90 ±910	650//3	9	(UM-4SLIM)×2
45E1A9F	45	2	3 ±15	10 ±50	1	2	65 -910	1200//0	—	UM-4SLIM
45E2A9F	45	4	3 ±15	30 ±50	1	3	80 ±910	1200//0.7	3.5	(UM-4SLIM)×2
55E1D3F	55	2	3 ±10	17 ±50	1	2.5	65 -910	1100//2	—	UM-4SLIM
55E2D3F	55	4	3 ±10	40 ±40	1	4	80 -910	550//1.8	8.5	(UM-4SLIM)×2

Products in UM-4SLIM holder can also be made in UM-1SLIM holder.

Operating temperature range: -30°C to +80°C

#### Electrical Data



#### 21.4MHz [Fundamental Mode]

Type	Nominal frequency [fo(MHz)]	Number of poles	Passband	Stopband	Max ripple (dB)	Max loss (dB)	Guaranteed attenuation (dB)(kHz)	Terminating impedance Zt(Ω//pF)	Coupling impedance Zc (pF)	Holder
			(dB) (kHz)	(dB) (kHz)						
21J1F	21.4	2	3 ±3.75	20 ±18	0.5	1.5	35 +350 to +1000 50 -200 to -1000	850//6	—	UM-1SLIM
21J2F2	21.4	4	3 ±3.75	40 ±14	1	2.5	65 +350 to +1000 80 -200 to -1000	850//5	16	(UM-1SLIM)×2
21J1E	21.4	2	3 ±6	20 ±25	0.5	1.5	35 +350 to +1000 50 -200 to -1000	1200//3	—	UM-1SLIM
21J2E2	21.4	4	3 ±6	40 ±20	1	2	65 +350 to +1000 80 -200 to -1000	1200//2.5	10.5	(UM-1SLIM)×2
21J1B	21.4	2	3 ±7.5	18 ±28	0.5	1.5	35 +400 to +1000 50 -200 to -1000	1500//2.5	—	UM-1SLIM
21J2B2	21.4	4	3 ±7.5	40 ±25	1	2	65 +350 to +1000 80 -200 to -1000	1500//2	8	(UM-1SLIM)×2
21J1A	21.4	2	3 ±15	15 ±45	0.5	1.5	35 +350 to +1000 45 -300 to -1000	1500//1	—	UM-1SLIM
21J2A2	21.4	4	3 ±15	40 ±50	1	2	65 +350 to +1000 80 -250 to -1000	2000//0.5	3	(UM-1SLIM)×2

Operating temperature range: -30°C to +80°C