

BR7-Series

Channel Deletion Filters - Single Channel Bandstop

Channels Available: T7 to T13, 2 to 6, 95 to 99, A14 to I22, 7 to 13; Bandwidth: 1000 MHz



Model BR7 Dim (in): 19L x 1.75H x 3D



Model BR7 E (BR7 with passband extender)
Dim (in): 19L x 1.75H x 5D

Sample production graphs included:
BR7-chs T8, 3, 97(A3), and C16.

The model **BR7** will remove one TV or DATA channel from the cable TV spectrum to allow substitution of local content. It preserves the adjacent channels and all other signals in passband.

- Low Impact on Adjacent channels
- Excellent Selectivity for sub-band chs T7 to T13
- Channel Formats available: NTSC standard, HRC, PAL and SECAM optional
- Customized narrow bandstops (5 to 300 MHz):
- 2 to 6 MHz wide, FM 88-108 MHz, 72-74 MHz
- Bandstop Rejection: > 50 dB for T7 to 6;
- >50 dB (Video to Color, and Audio) 95 to 13
- Passband Insertion Loss: 1.25 dB +/- .5 dB; and for BR7 E: < 1dB from 450 to 1000 MHz
- Sturdy Metal Enclosure - Wall or Rack mount
- Final Production Graph provided
- See **CE7** for chs A14 - I22, 7 -13, 23 - 105
- See **BR7W** for multi-channel/wide bandstops

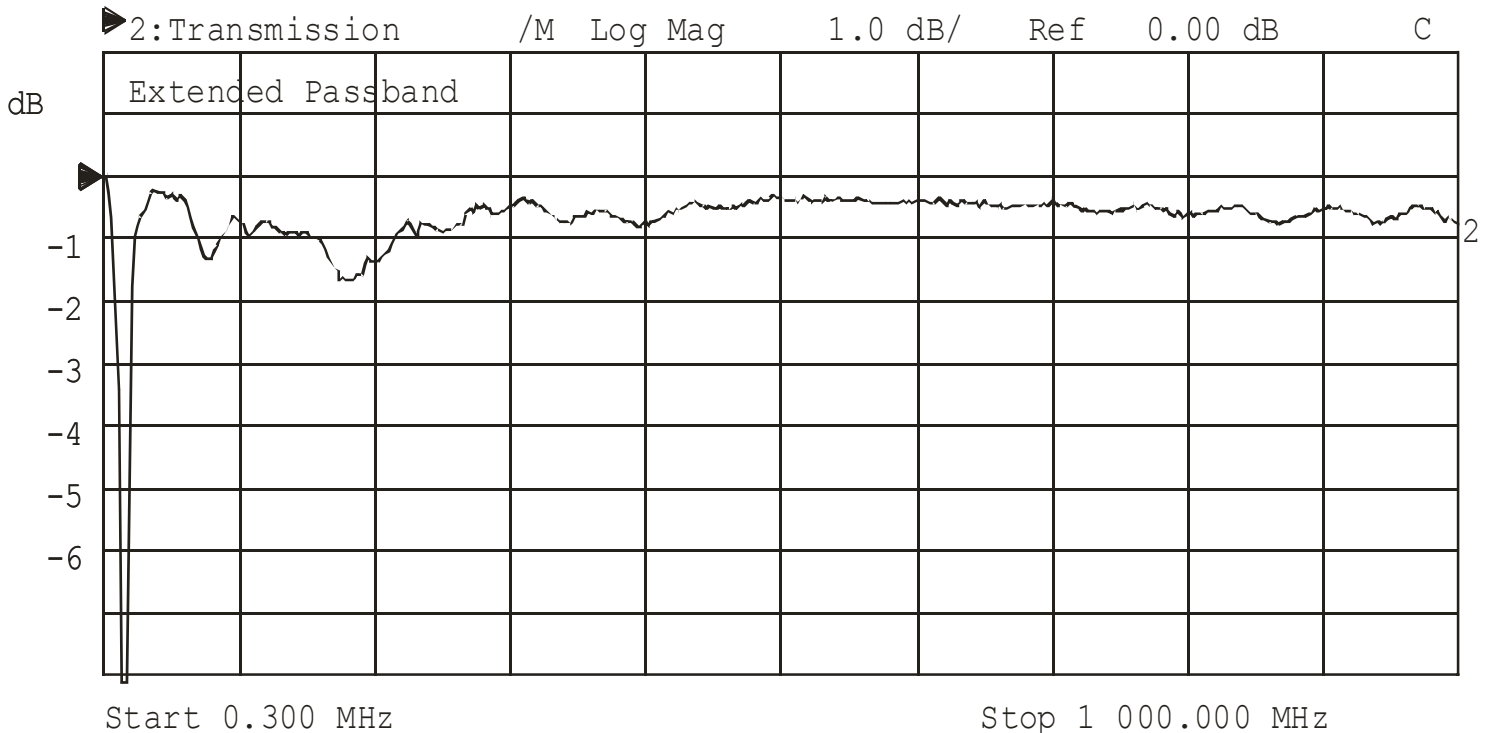
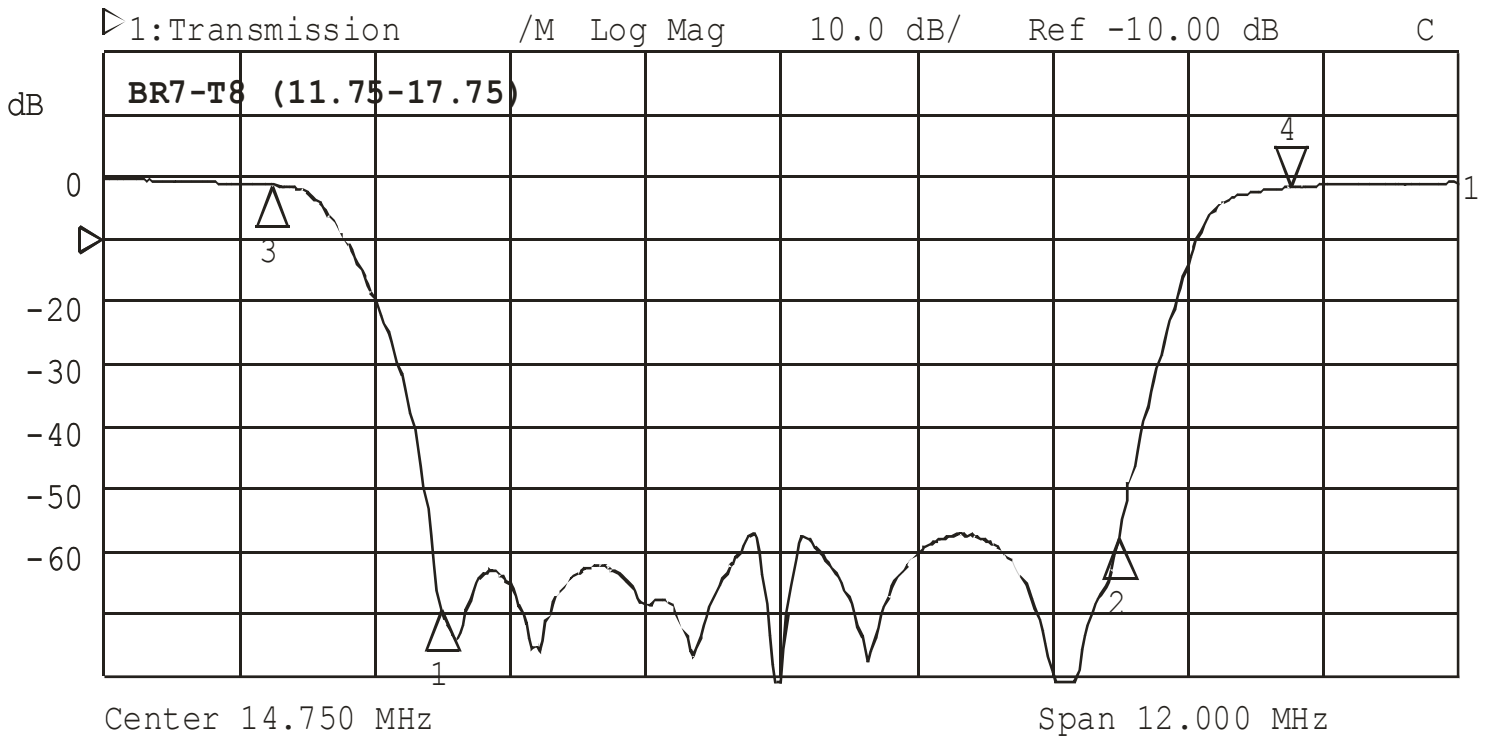
SPECIFICATIONS

Channels	Bandwidth (MHz) Standard/ Extended	Passband Loss (dB) *1	Adjacent Carrier Loss Lower	Upper	Stopband (dB):
T7 — T13	DC– 150 / 1000	1.0 ± .5	< 2.5 dB	< 2.5 dB	>50 (see example Graph 1 –ch.T8)
3 — 6 (HE)	DC – 1000	1.0 ± .5	< 3.0 dB	< 3.0 dB	>50 (see example Graph 2—ch.3)
3 — 6	DC– 550 / 1000	1.25 ± .5	< 3.5 dB	< 3.5 dB	>50 video to color , audio
A5 — A1 (95 - 99)	DC– 550 / 1000	1.25 ± .5	< 4 dB	< 3.5 dB	>50 (see example Graph 3-ch.97)
A14 — I22,	DC– 550 / 1000	1.25 ± .5	< 4.5 dB	< 4.0 dB	>50 video to color , audio (see example Graph 4 –ch.16)
7 — 13	DC—750 / 1000	1.25 ± .5	< 5.5 dB	< 4.5 dB	>50 video to color , audio
General Specifications					
Connectors	F-type female	Operating Temperature		Weight	3 lbs -BR7 4 lbs-BR7 E
Impedance	75 ohms	-10 to +40 ° C (20 to120 ° F)			
Power pass	2 amp, 60 VAC max. 15 Amp power bypass opt. (see model LH7-AC15/RF)			Mounting	Wall or Rack

* **Note:** 1. Units with Passband Extenders have < 1dB insertion from 450 to 1000 MHz
 2. "Adjacent Carrier Loss" includes passband and extender insertion losses.



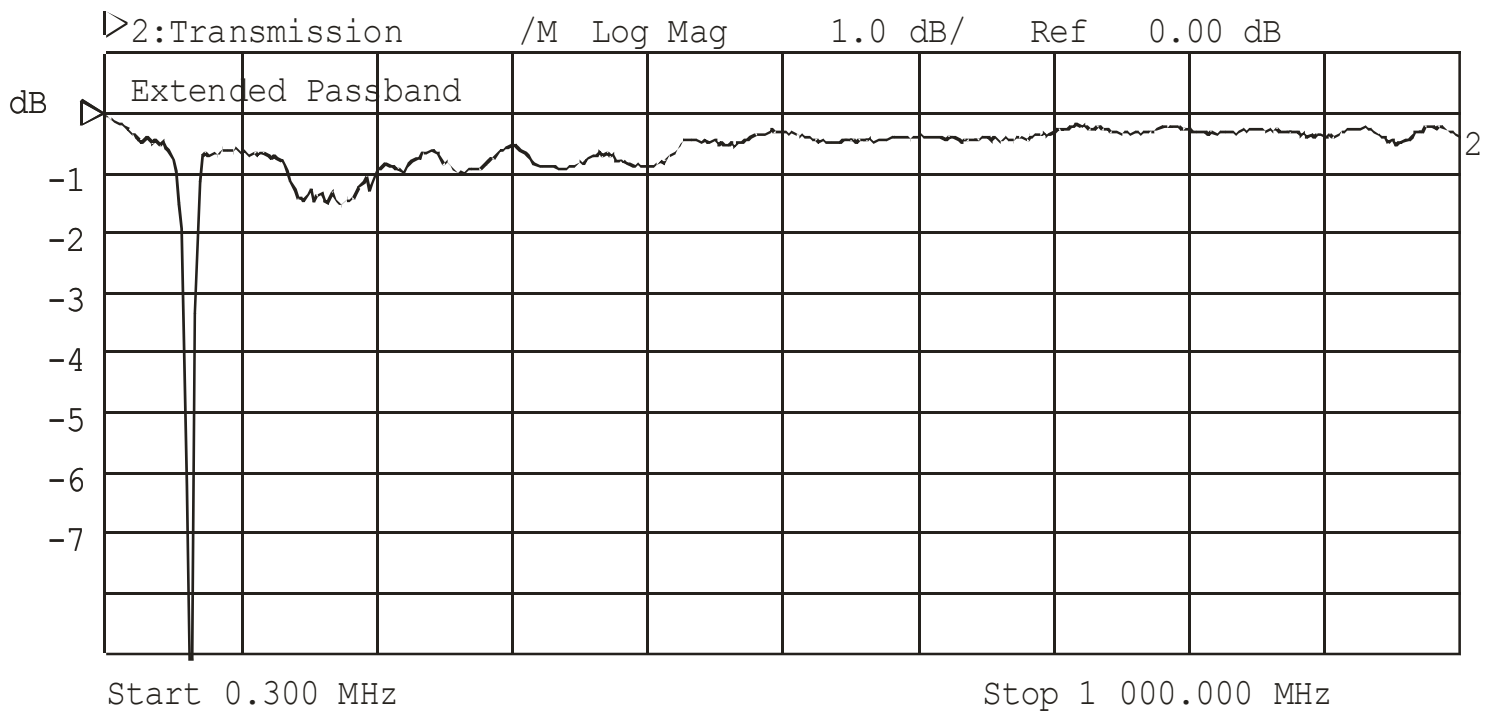
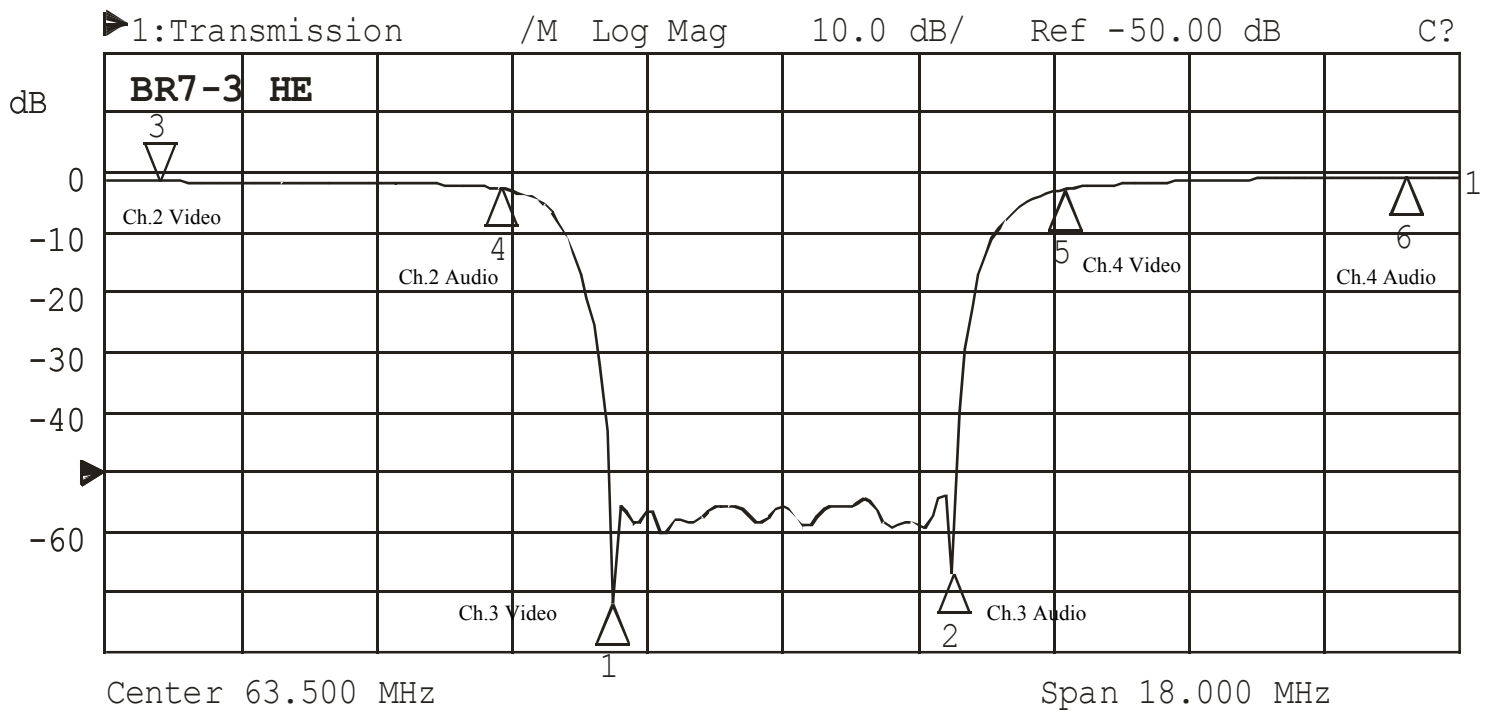
Graph #1: BR7-ch.Ch.T8 E - Sub-Band (6 MHz) Deletion Filter with extended passband



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	11.7500	-69.526	
2:	17.7500	-57.760	
3:	10.2500	-1.272	
4>	19.2500	-1.677	



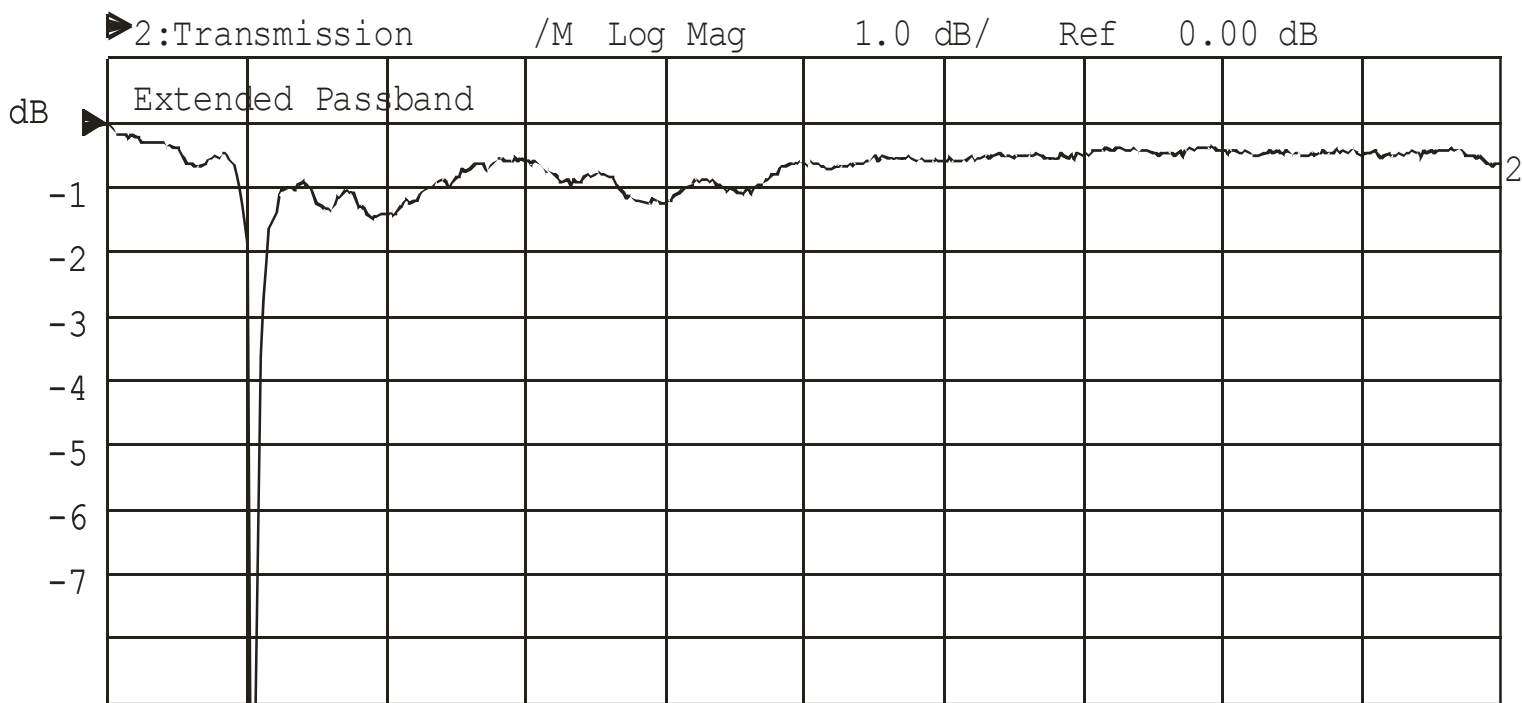
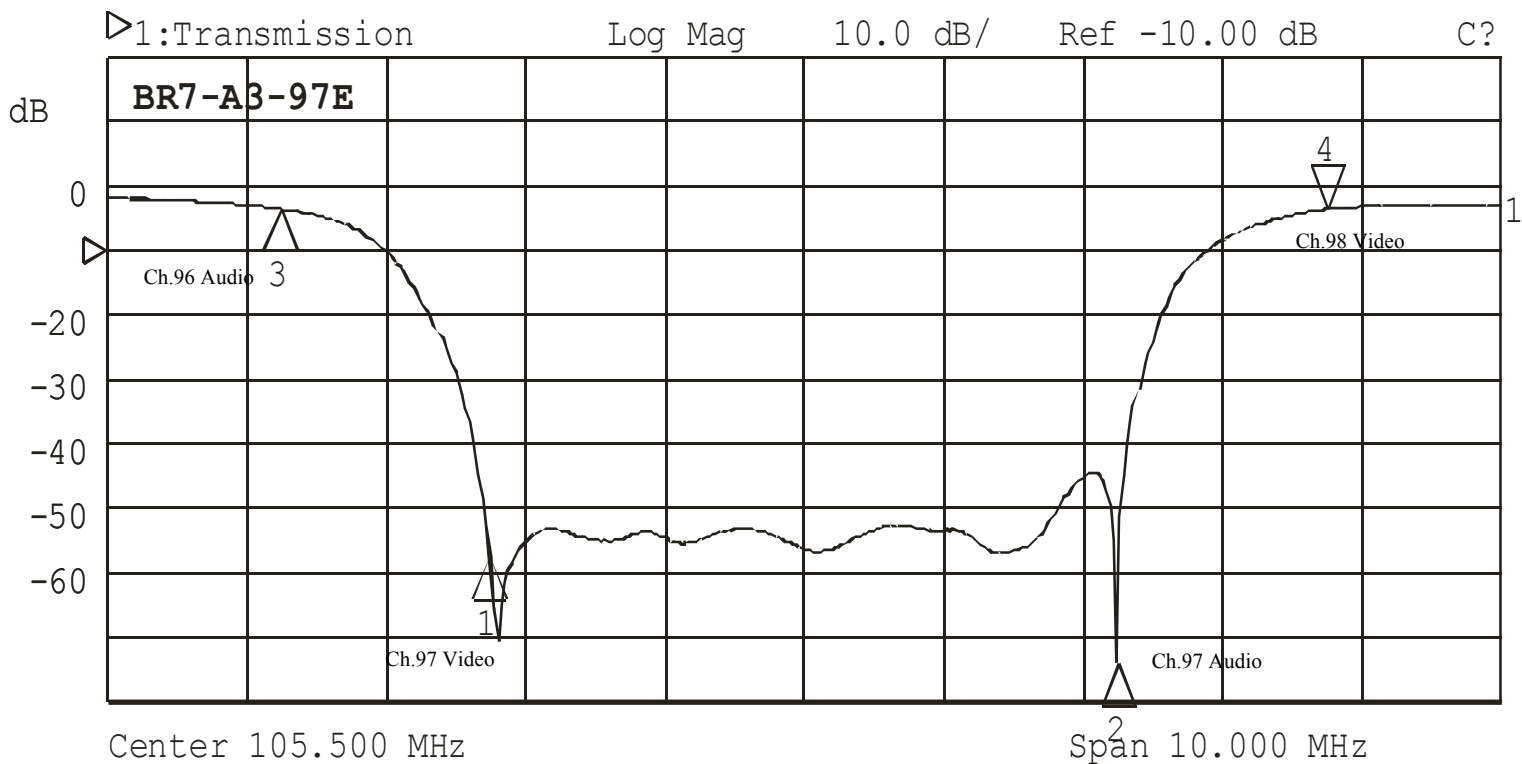
Graph #2: BR7-ch.Ch.3HE - Low-Band "Headend" Deletion Filter - Passband extended



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	61.2500 -71.777		
2:	65.7500 -66.831		
3>	55.2500 -1.452		
4:	59.7500 -2.681		
5:	67.2500 -2.784		
6:	71.7500 -0.740		



Graph #3: BR7-ch.Ch.A3(97) E - Mid-Band Deletion Filter with extended passband



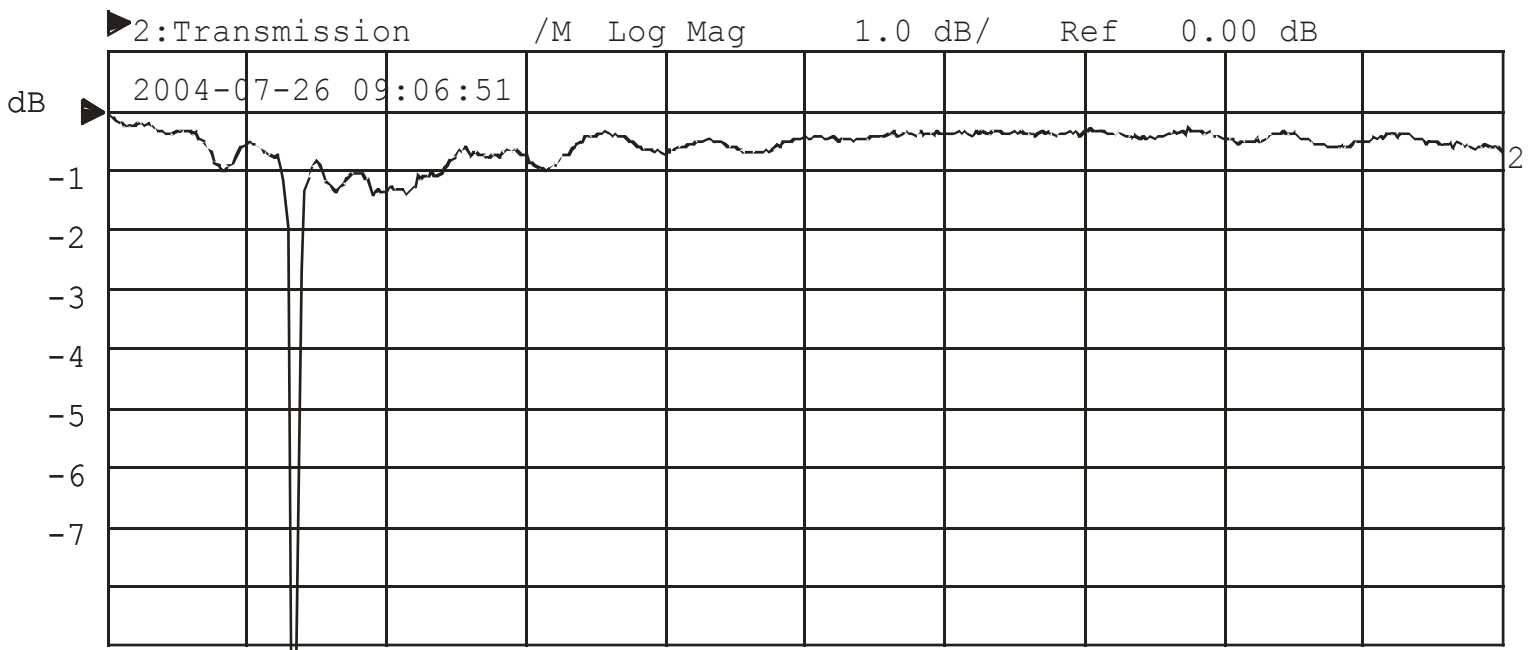
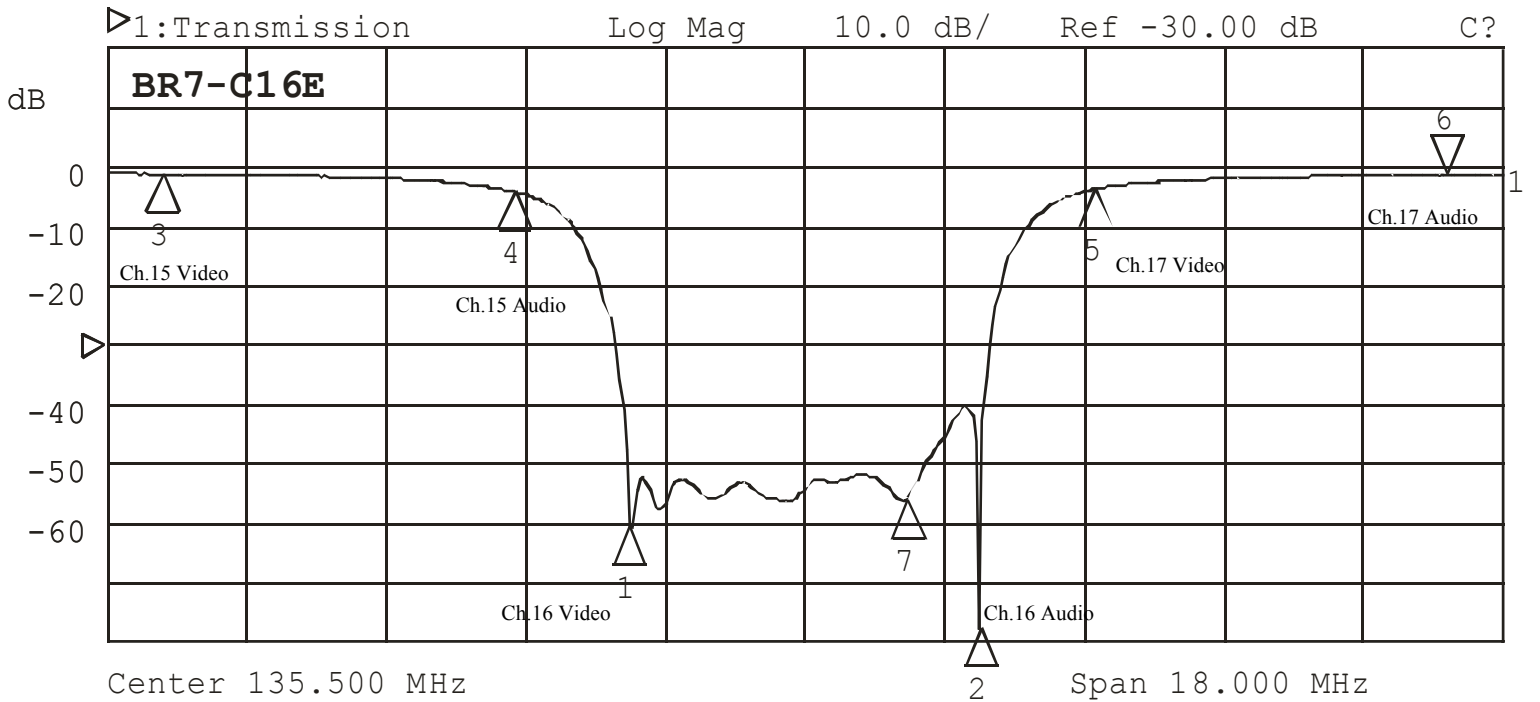
Start 0.300 MHz

Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 103.2500	-57.545		
2: 107.7500	-73.790		
3: 101.7500	-3.561		
4> 109.2500	-3.606		



Graph 4: BR7-ch.C16E Midband Channel Deletion Filter



Start 0.300 MHz Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	133.2500 -60.264		
2:	137.7500 -77.728		
3:	127.2500 -1.047		
4:	131.7500 -4.029		
5:	139.2500 -3.620		
6>	143.7500 -1.172		
7:	136.8300 -55.832		

