

CE7-Series

Channel Deletion Filters - Single Channel Bandstop

Adjacent Channels Preserved - Channels Available: **A14 to I22, 7 to 13, 23 to 105** - Bandwidth **1GHz**



Model **CE7** Dim (in): 19L x 1.75H x 4D



Model **CE7 E** (CE7 with passband extender)
Dim (in): 19L x 1.75H x 6D

Sample production graphs provided below:
CE7-chs 21, 32, 60, 81, 105.

The model **CE7** 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.

- Minimal Impact on Adjacent Channels
- Available Channels: A1, A14-I22, 7-13, 23-105
- Channel formats available: NTSC standard; HRC, PAL or UHF optional
- Customized Narrow Bandstops: 2 to 6 MHz wide, within 120 to 800 MHz
- Stopband: > 50 dB across TV or Data channel
- Low Passband loss: 1.0 dB +/- .5 dB
- Good temperature stability (-10° to +40° C)
- Sturdy Metal enclosure. Wall or Rack mount
- Final Production Graph provided
- See **BR7** for chs T7-T13, 2 - 6, A5-95 - A1-99, A14 - I22. 7-13
- See **CE7W** for wide/multi-channel bandstops
- Optional - 15 Amp power bypass available

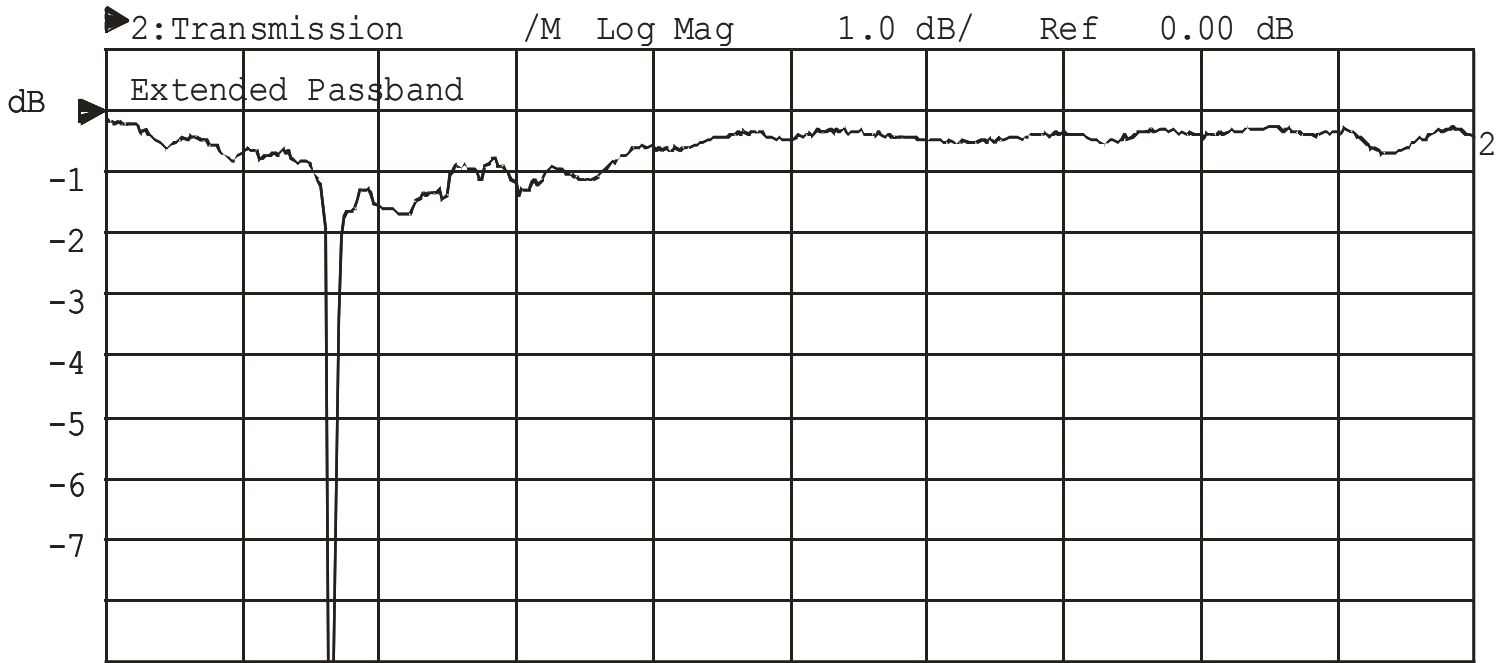
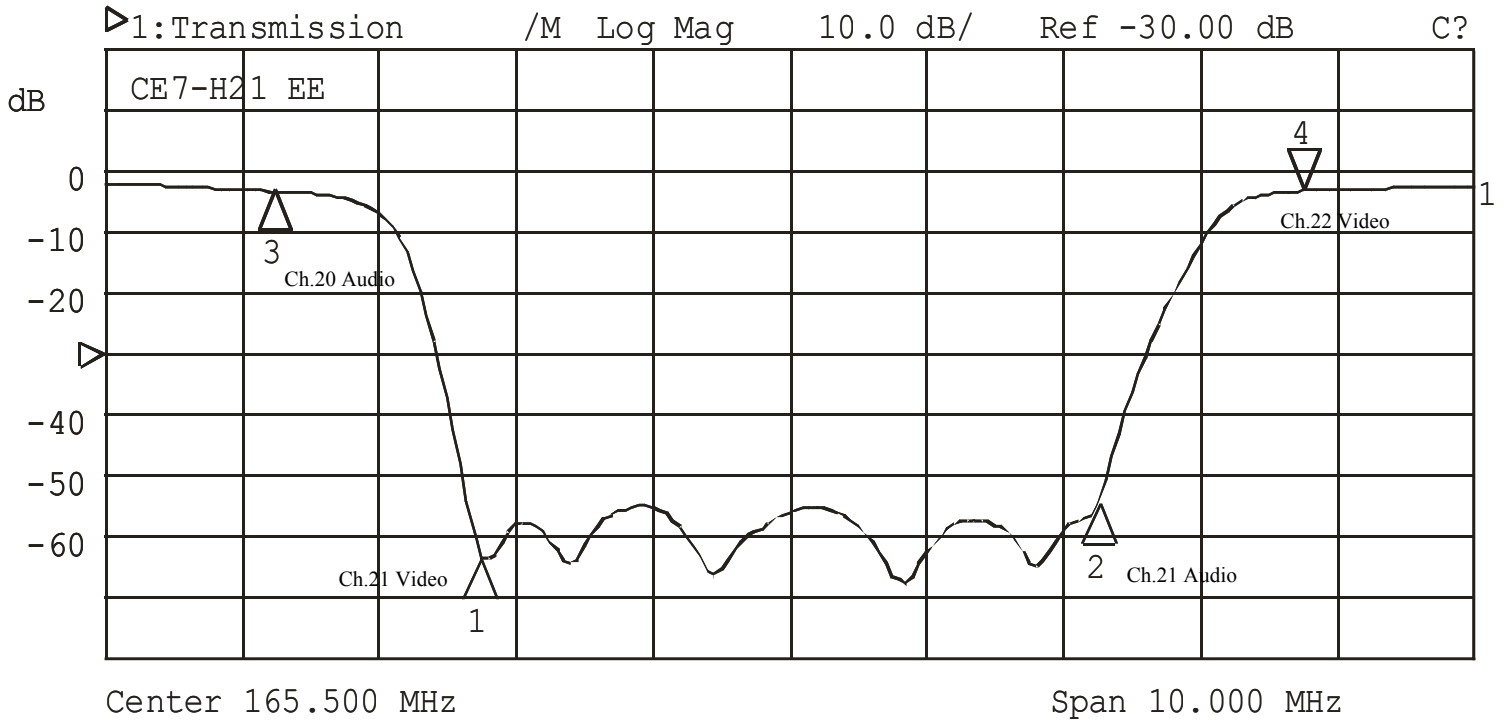
SPECIFICATIONS

Channels	Bandwidth (MHz) Standard/ Extended	Passband Loss (dB) *1	Adjacent Carrier Loss *2 Lower	Upper	Stopband (dB):
A14 - I22, 7-10	DC - 1000	1.25 ± .5	< 3.5 dB	< 3.5 dB	>50 (see ex. Graph 1– H21)
11 - 28	DC - 550 / 1000	1.0 / 1.25 ± .5	< 3.5 dB	< 3.5 dB	>50
29 - 37	DC - 750 / 1000	1.0 / 1.25 ± .5	< 3.5 dB	< 3.5 dB	>50 (see ex. Graph 2 - C32)
38 - 44	DC - 900 / 1000	1.0 / 1.25 ± .5	< 4 dB	< 3.5 dB	>50
45 - 60	DC - 1000	1.0 ± .5	< 3.5 dB	< 3.5 dB	>50 (see ex. Graph 4 – C60)
61 - 80	DC - 1000	1.0 ± .5	< 5.0 dB	< 4.0 dB	>50 (see ex. Graph 4 – C81)
81-105	DC - 1000	1.0 ± .5	< 5.5 dB	< 4.5 dB	>50 (see ex. Graph 5 - C105)
General Specifications					
Connectors	F-type female	Operating Temperature	-10 to +40 ° C (20 to 120 ° F)		Net Weight
Impedance	75 ohms				3 lbs –CE7 3.5 lbs-CE7 E
Power pass	2 amp, 60 AC max. 15 Amp power bypass opt. - see model LH7-AC15/RF			Installation/ Mounting	In-line / Wall or Rack

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



Graph #1: CE7-ch.Ch.H21 E - Midband Channel Frequency Response



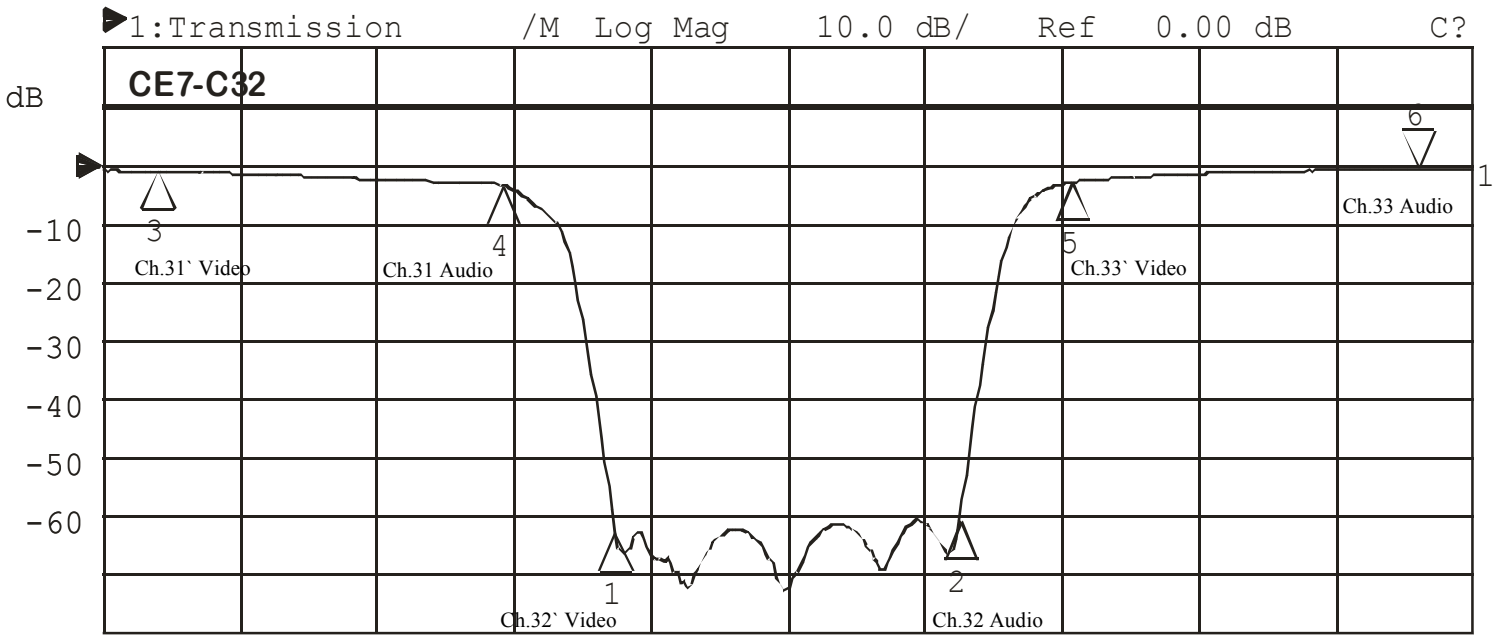
Start 0.300 MHz

Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 163.2500	-63.489		
2: 167.7500	-54.606		
3: 161.7500	-3.191		
4> 169.2500	-3.153		

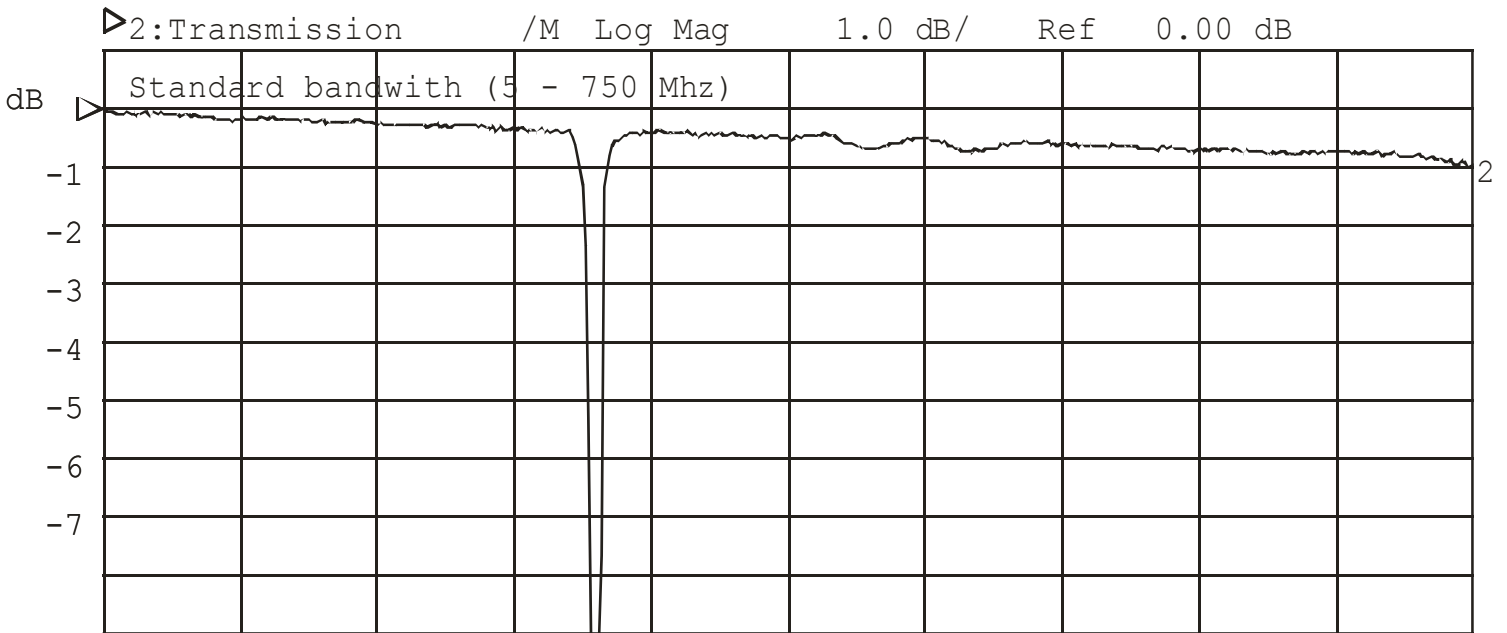


Graph #2: CE7-ch.C32 - Superband channel frequency response



Center 273.500 MHz

Span 18.000 MHz



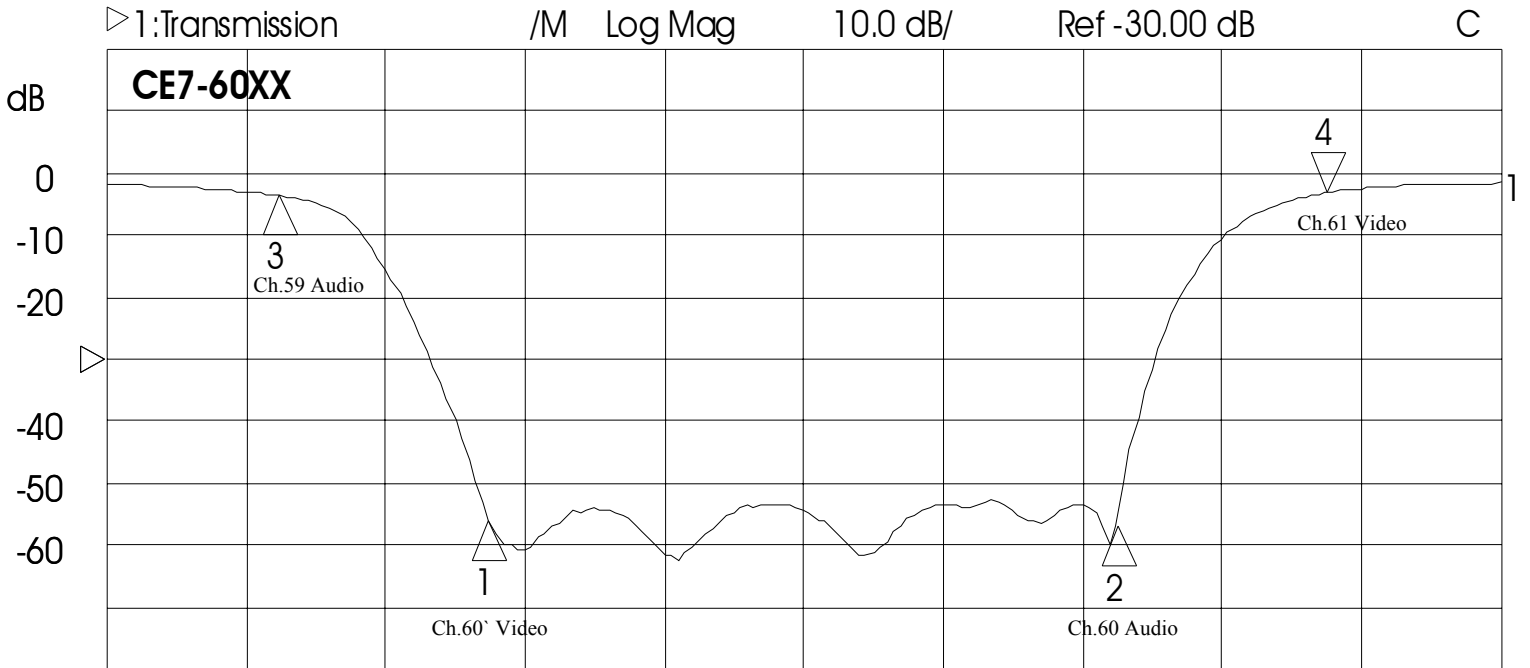
Start 0.300 MHz

Stop 760.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	271.2500	-62.834	
2:	275.7500	-60.816	
3:	265.2500	-1.031	
4:	269.7500	-3.382	
5:	277.2500	-2.846	
6>	281.7500	-0.696	

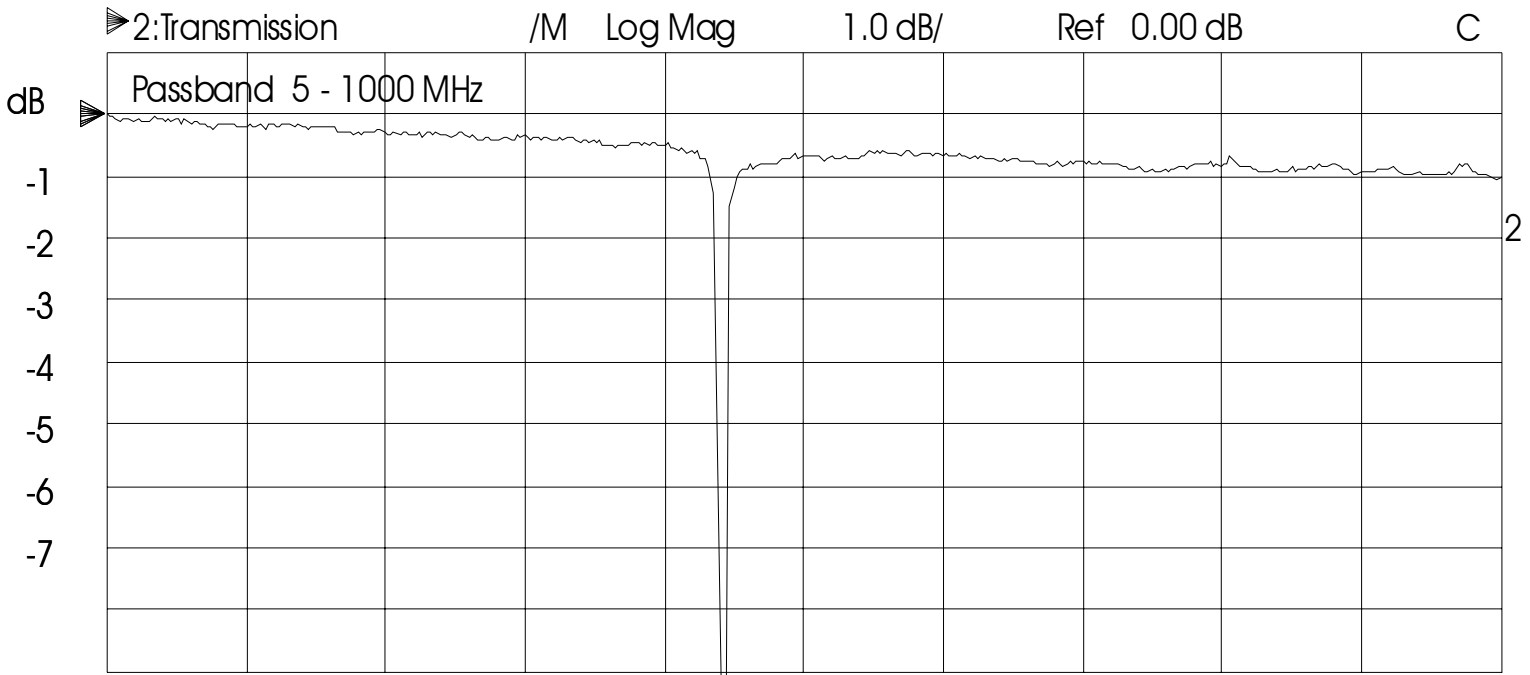


Graph #3: CE7-ch.C60 - Hyperband Channel frequency response



Center 441.500 MHz

Span 10.000 MHz



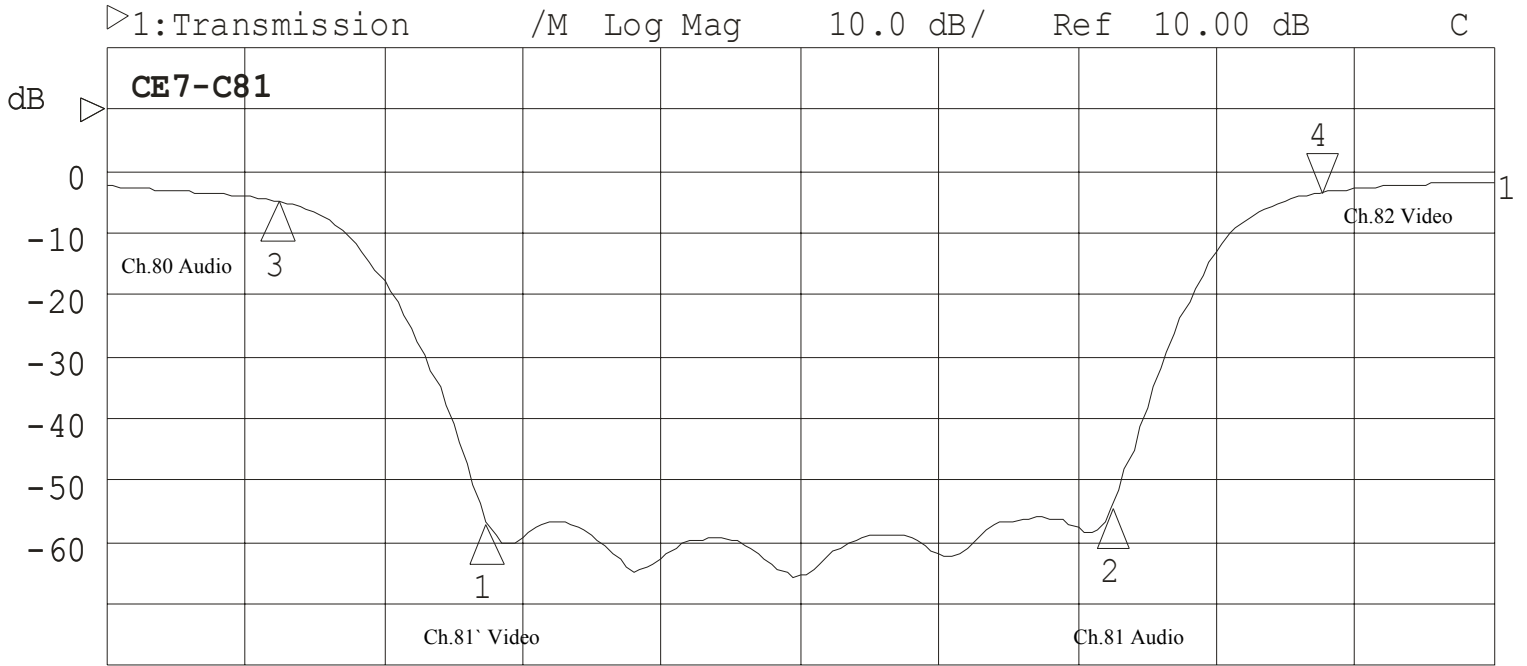
Start 0.300 MHz

Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	439.2500	-56.147	
2:	443.7500	-57.084	
3:	437.7500	-3.738	
4>	445.2500	-3.100	

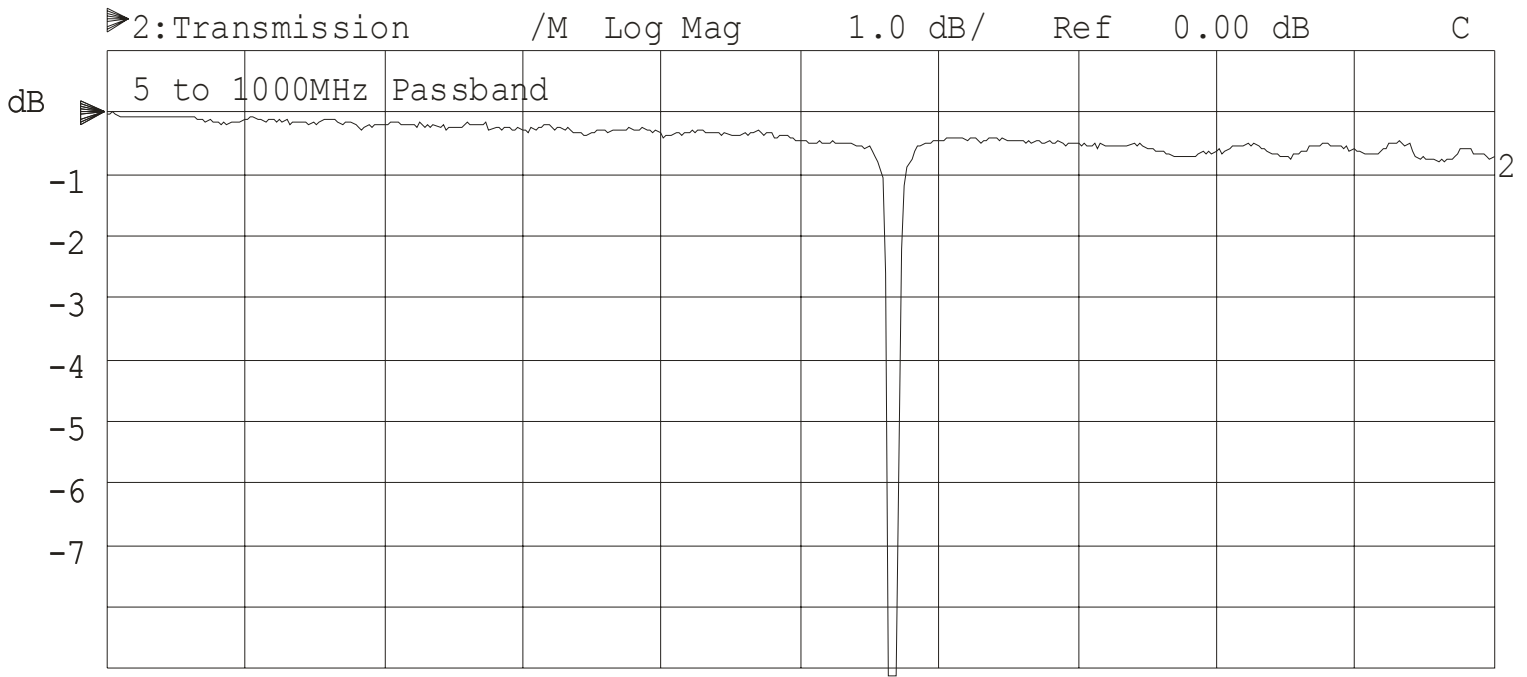


Graph #4: CE7-ch.C80 - Hyperband Channel frequency response



Center 567.500 MHz

Span 10.000 MHz



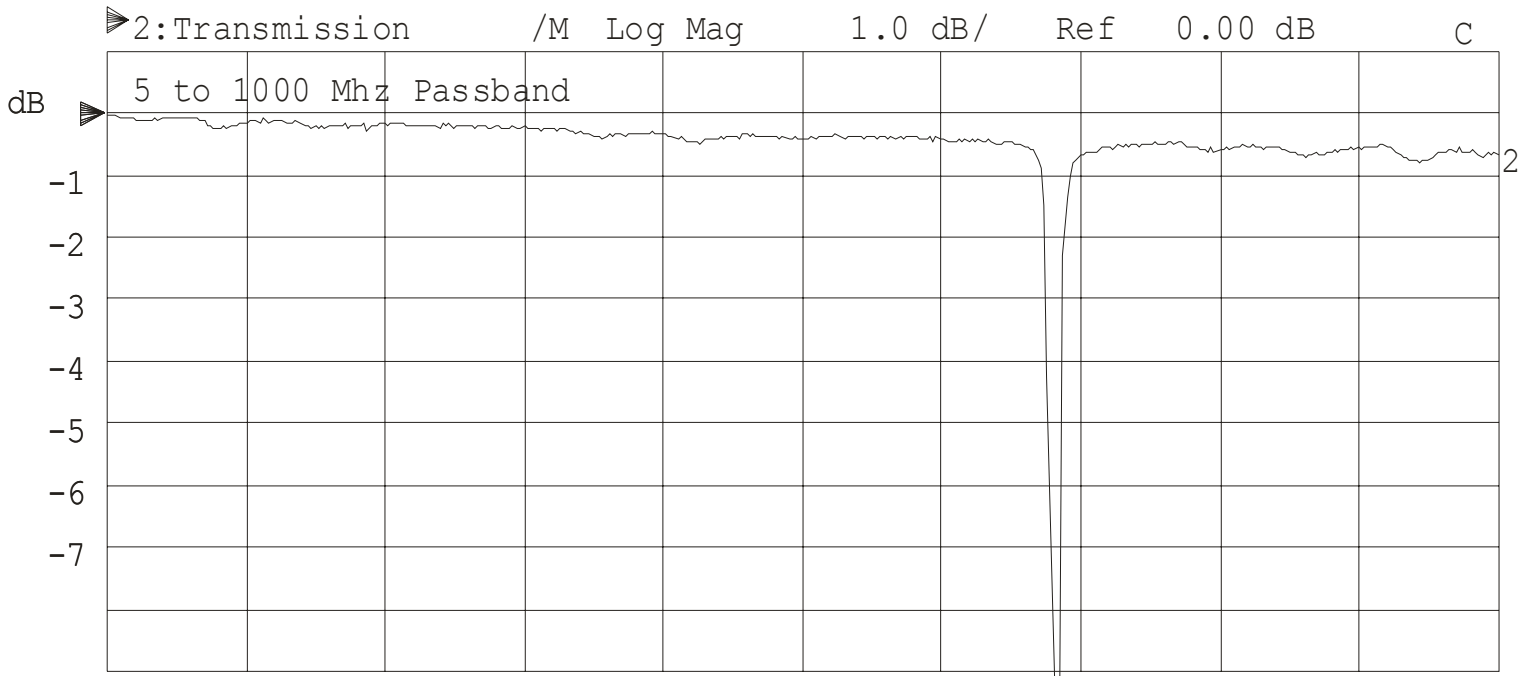
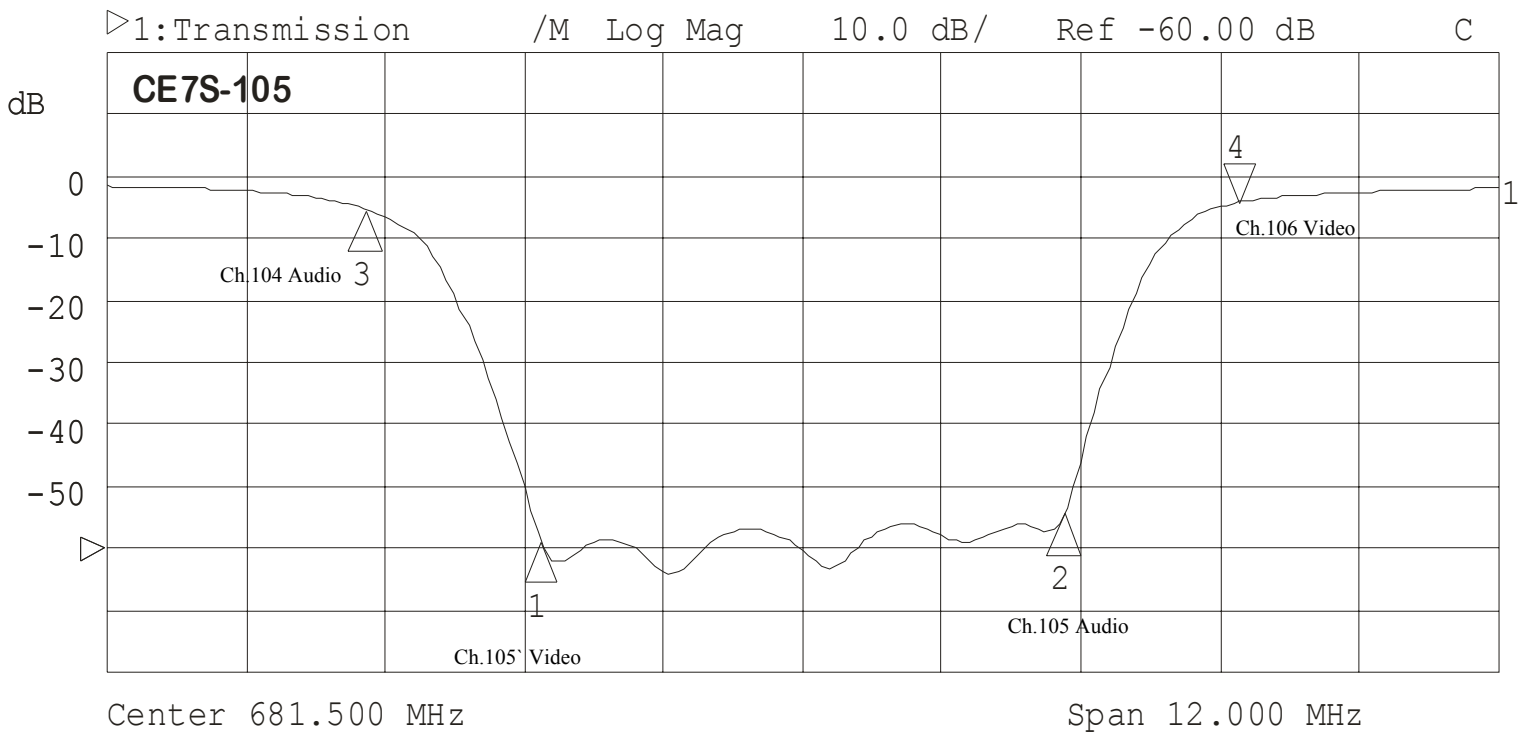
Start 0.300 MHz

Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 565.2500	-56.783		
2: 569.7500	-54.617		
3: 563.7500	-4.708		
4> 571.2500	-3.603		



Graph #5: CE7-ch.C105 - Hyperband Channel Frequency Response



Start 0.300 MHz Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 679.2500	-58.765		
2: 683.7500	-54.736		
3: 677.7500	-5.450		
4> 685.2500	-4.261		