



BP7-ch.UHC (Cavity type)

Description

Model BP7-ch.UHC is a high performance single channel bandpass filter for UHF/CATV low power operation (460 to 850 MHz). Standard BP7-UHC filter is 4 cavity, 6 MHz BW (typical frequency response shown in graph 1, enhanced skirt with optional side traps shown in graph 2. BP7-UHC is also available with 3 thru 6 cavities, e.g., Graph 3 shows frequency response of 3 cavity, 18 Mhz BW filter.

BP7-UHC (without side traps) is available for, and can be factory re-channelized, three frequency ranges: 460 to 600 MHz, or, 570 to 720 MHz, or, 720 to 850 MHz.

- Passband: 6 MHz or 8 MHz; Option: 3 to 18 MHz
- Insertion Loss: 1.0 to 2.5 dB; Flatness: 0.5 dB
- Return Loss: >18 dB (VSWR 1.28)
- Rejection: 25 dB at +/- 8 Mhz from bandedge (6 MHz, 4 cavity)
- Rejection: 40 dB at +/-14 MHz from bandedge (6 MHz, 4 cavity)
- Operating Bandwidth: 0 - 1 GHz ;
- Power Handling: 10 Watts max
- Connectors 75 ohms: F-female; option 75ohms BNC or N
- Connectors 50 ohms: BNC, SMA, N,or, TNC

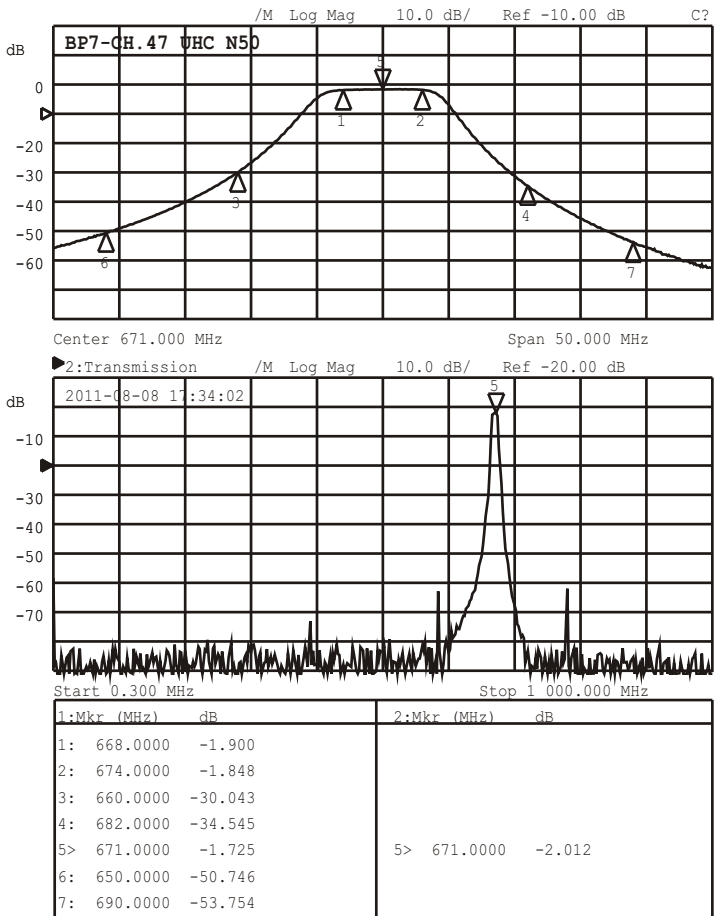


BP7-ch.# UHC Rack Mount
Dim: 1.75" x 19" x 6.5" (1 RU)

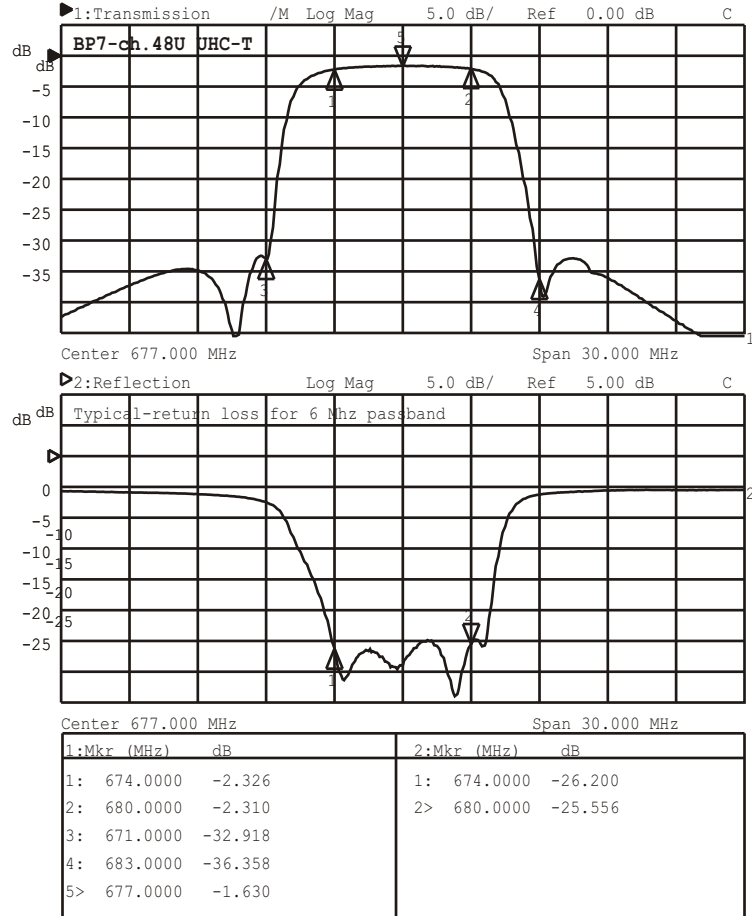


BP7-ch.# UHC Wall Mount
Dim: 6.5" x 17" x 1.75"

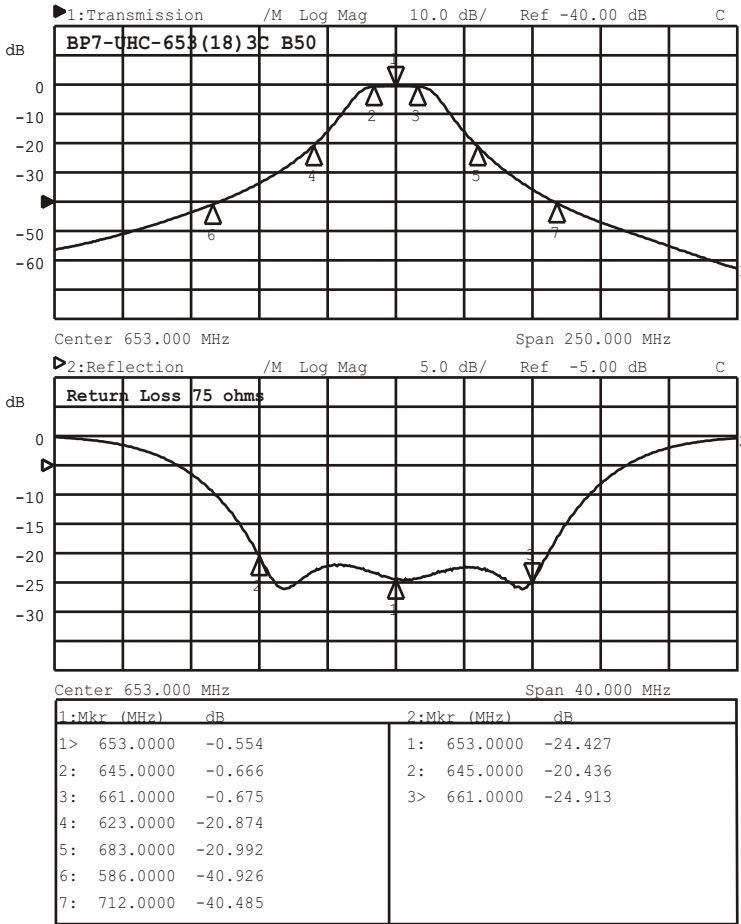
Graph 1: Typical frequency response of 4 cavity filter: Pass band, Skirt, Stop band of, e.g., ch.47 ATSC



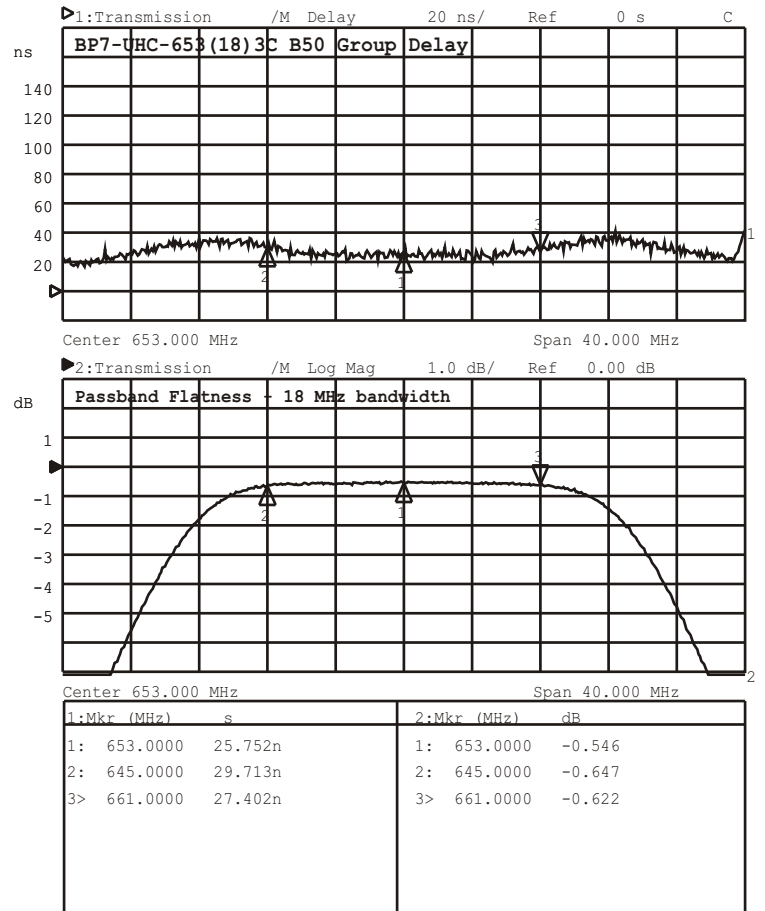
Graph 2: Typical frequency response with trap enhanced skirt: Pass band, Skirt, return Loss of, e.g., Ch.48 ATSC



Graph 3: Typical frequency response 3 Cavity, 18 MHz band pass -Fc at 653 Mhz - passband and return loss



Graph 4: Typical frequency response 3 Cavity, 18 MHz band pass -Fc at 653 Mhz - Delay and flatness



General Ordering Information: BP7-UHC

BP7-CH.#(BW) UHC-(T)F75

Channel or Center frequency →
 Bandwidth: 6 or 8 MHz
 Option: 3 to 18 MHz →
 Connector/Impedance →
 Trap enhanced →

Examples:

- 1: BP7-CH.47 UHC (channel 47, 6 MHz BW, F 75 ohms, graph 1)
- 2: BP7-CH.48 UHC-T - channel 48 (6 MHz BW, trap enhanced, graph 2)
- 3: BP7-653(18) UHC B50 (Fc = 653 MHz, 18 MHz BW, BNC/50 ohms, graph 3)