



DX Engineering Receive Filter Plug-In Module Information



DX Engineering Receive Filter Plug-In Modules provide receiving system enhancements over specific frequency ranges. These filters are PC boards with connectors, which fit into and serve in the specialized DX Engineering devices listed below. These advanced plug-in filter modules are available separately, to allow any user to create a specific or customized filter with low-pass, band-pass and high-pass frequency ranges. Filter cut-off and center frequencies correspond to the major Amateur bands, 160, 80, 40, 20, 15 and 10 meters, with filter module insertion loss of only about 1dB. By reducing or excluding interfering noise and signals that are out of the passband, the receiver noise floor can be lowered within the desired passband for dramatically improved reception.

DX Engineering Receive Filter Plug-In Modules may be installed in these devices:

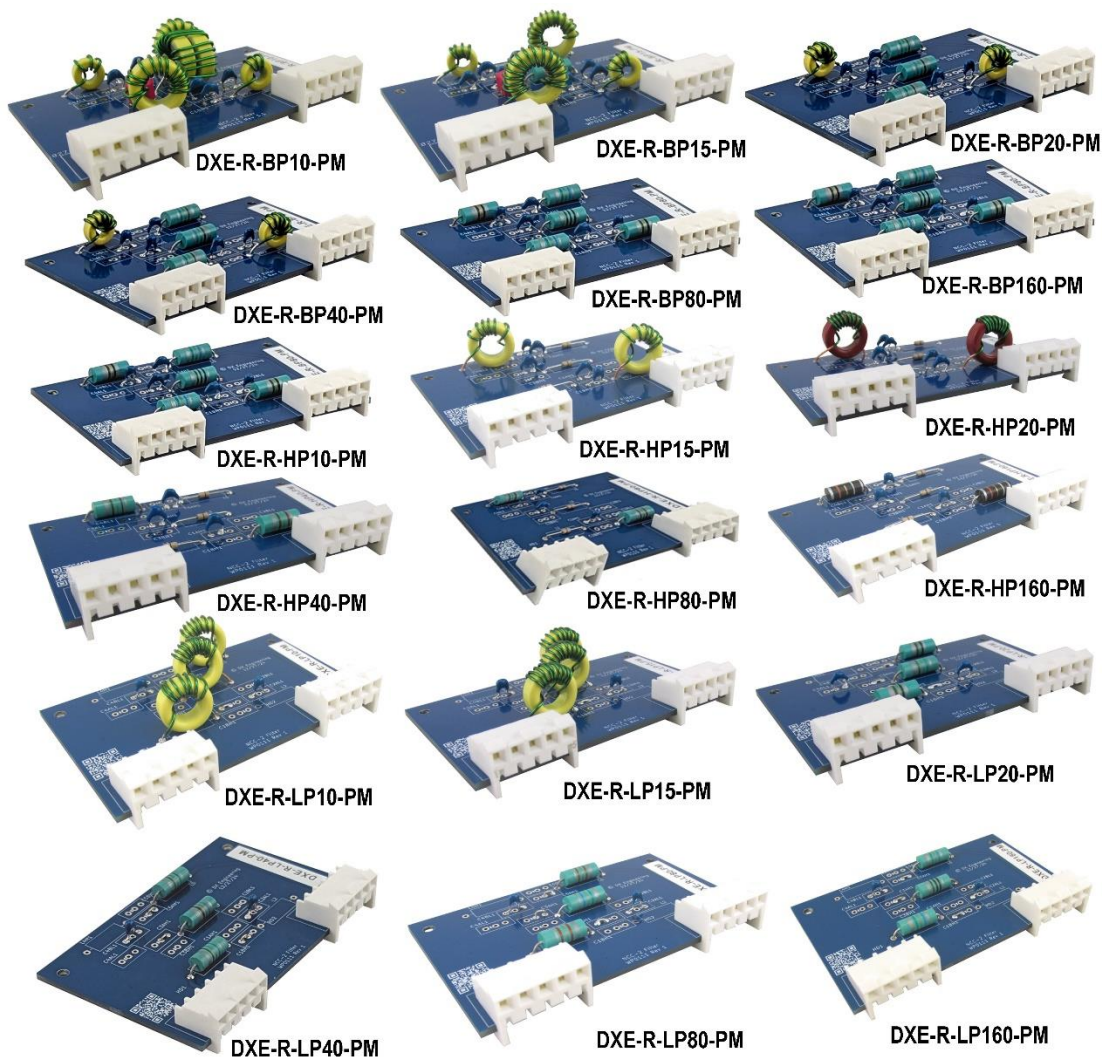
- **DXE-DMC-2** Dual Module Chassis accepts one or two filter modules to create a stand-alone passive inline filter unit of any configuration. One high pass filter and one low pass filter can be installed to create a multi-band bandpass filter of any HF range.
- **DXE-RPA-2-PM** Modular Receive Preamplifier accepts one Receive Filter Plug-In Module to customize the preamplifier passband.
- **DXE-RTR-2** Modular Receive-Transmit Interface which safely adds a receive antenna input to any transceiver that doesn't have a separate receive input. The DXE-RTR-2 has two slots for modules, where one or two Receive Filter Plug-In Modules may be used, or one filter and one DXE-RPA-2-PM Modular Receive Preamplifier.
- **DXE-NCC-2** Receive Phasing Controller can accept one or two Receive Filter Plug-In Modules into each channel, Channel A and Channel B. The DX Engineering NCC-2 is highly regarded by many owners and engineers to be the best receive phasing and noise canceling unit available and is used extensively by enthusiasts in Amateur Radio DXing, Contesting, AM DXing, and Short-Wave Listening (SWL), and is also used in commercial AM and HF broadcast applications. DX Engineering Receive Filter Plug-In Modules add an extra dimension of functionality to the NCC-2, for enhanced directional noise and signal nulling performance within a specific frequency range. By default, NCC-2 internal option slots have bypass boards to pass all signals. Receive Filters installed are not switchable, and dedicate the unit to filtered operation. Typically, one pair of band-pass or high-pass or low-pass filters, depending on desired filtering, is installed in the NCC-2 to suit the specific signal rejection needs of the discerning operator.

As an example, an 80 meter DX enthusiast may elect to install two 80 meter band pass Receive Filter Plug-In Modules, part number DXE-R-BP80-PM, into their NCC-2 Channel A and Channel B middle slots. This dedicates their NCC-2 to 80 meter-only operations. This dramatically reduces noise and signals from outside the 80 meter band, very effectively excluding interference from nearby AM Broadcast, 160 and 40 meter stations.

A much lower noise floor across the filtered passband can help achieve reception of weak DX signals. Additional filters can be exchanged in the equipment for a different passband, whenever desired.

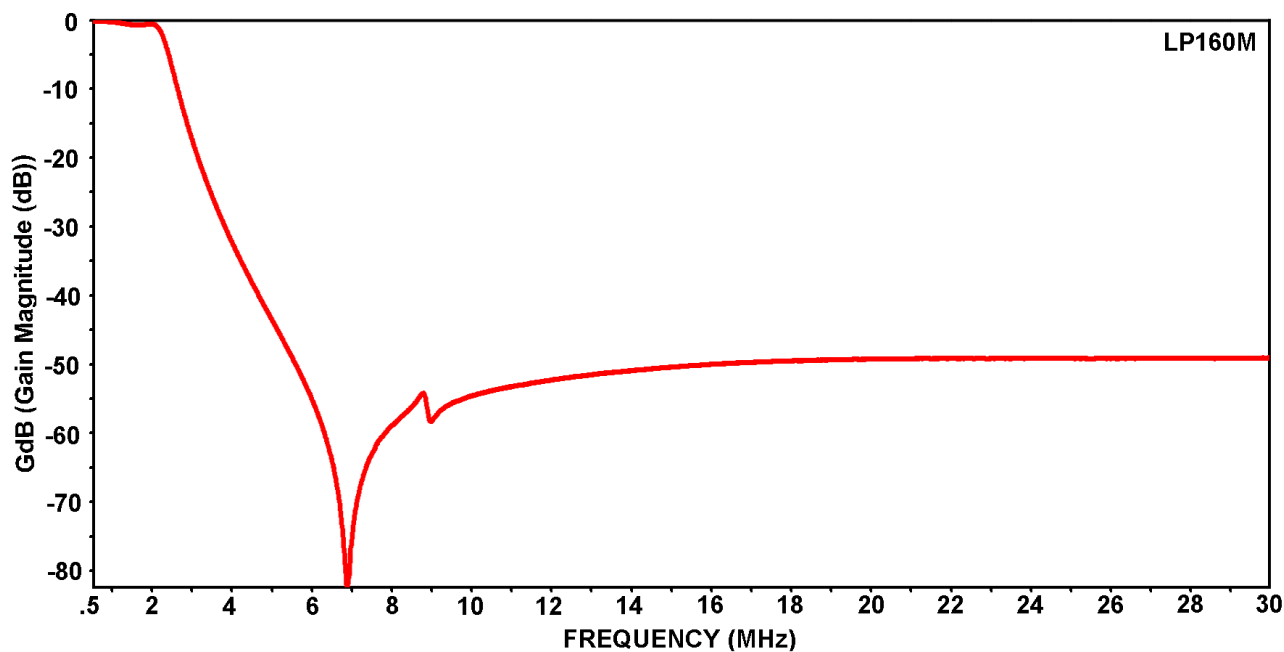
Receive Filter Plug-In Modules are available individually as shown below.

Part Number	Description
DXE-R-BP10-PM	10M BAND PASS RX FILTER MODULE - 28 MHz Band Pass
DXE-R-BP15-PM	15M BAND PASS RX FILTER MODULE - 21 MHz Band Pass
DXE-R-BP20-PM	20M BAND PASS RX FILTER MODULE - 14 MHz Band Pass
DXE-R-BP40-PM	40M BAND PASS RX FILTER MODULE - 7 MHz Band Pass
DXE-R-BP80-PM	80M BAND PASS RX FILTER MODULE - 3.5 MHz Band Pass
DXE-R-BP160-PM	160M BAND PASS RX FILTER MODULE - 1.8 MHz Band Pass
DXE-R-HP10-PM	10M HIGH PASS RX FILTER MODULE - 28 MHz High Pass
DXE-R-HP15-PM	15M HIGH PASS RX FILTER MODULE - 21 MHz High Pass
DXE-R-HP20-PM	20M HIGH PASS RX FILTER MODULE - 14 MHz High Pass
DXE-R-HP40-PM	40M HIGH PASS RX FILTER MODULE - 7 MHz High Pass
DXE-R-HP80-PM	80M HIGH PASS RX FILTER MODULE - 3.5 MHz High Pass
DXE-R-HP160-PM	160M HIGH PASS RX FILTER MODULE - 1.8 MHz High Pass
DXE-R-LP10-PM	10M LOW PASS RX FILTER MODULE - 28 MHz Low Pass
DXE-R-LP15-PM	15M LOW PASS RX FILTER MODULE - 21 MHz Low Pass
DXE-R-LP20-PM	20M LOW PASS RX FILTER MODULE - 14 MHz Low Pass
DXE-R-LP40-PM	40M LOW PASS RX FILTER MODULE - 7 MHz Low Pass
DXE-R-LP80-PM	80M LOW PASS RX FILTER MODULE - 3.5 MHz Low Pass
DXE-R-LP160-PM	160M LOW PASS RX FILTER MODULE - 1.8 MHz Low Pass

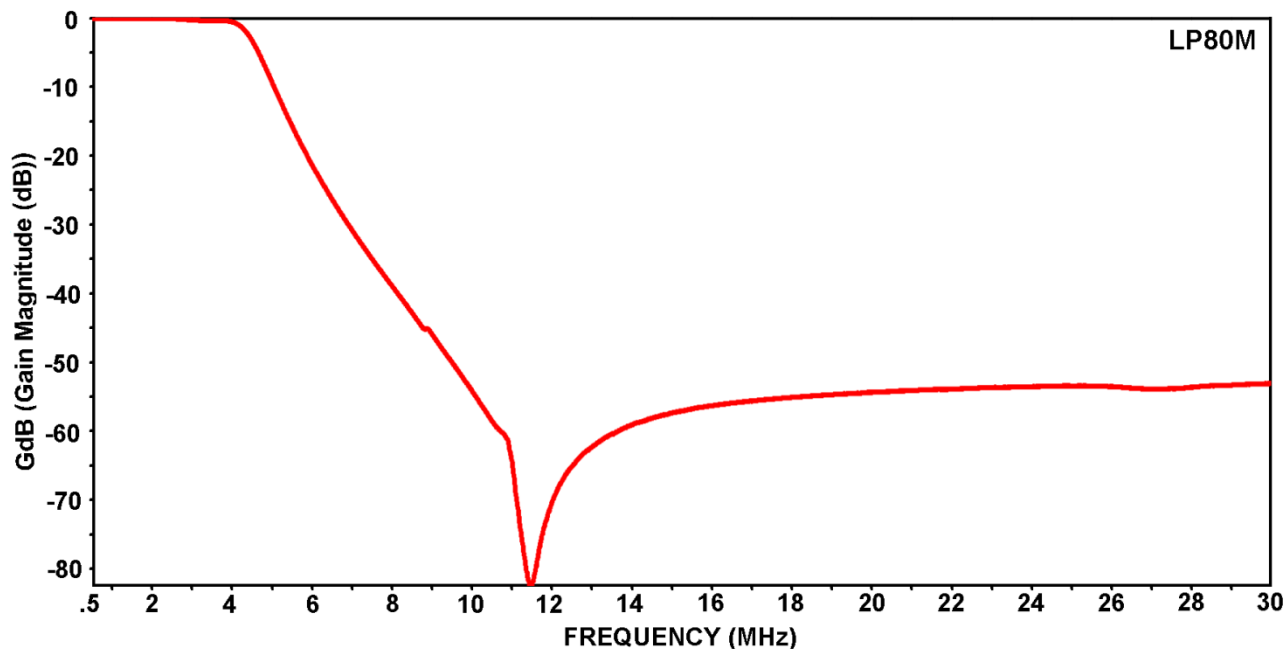


Filter Graphs

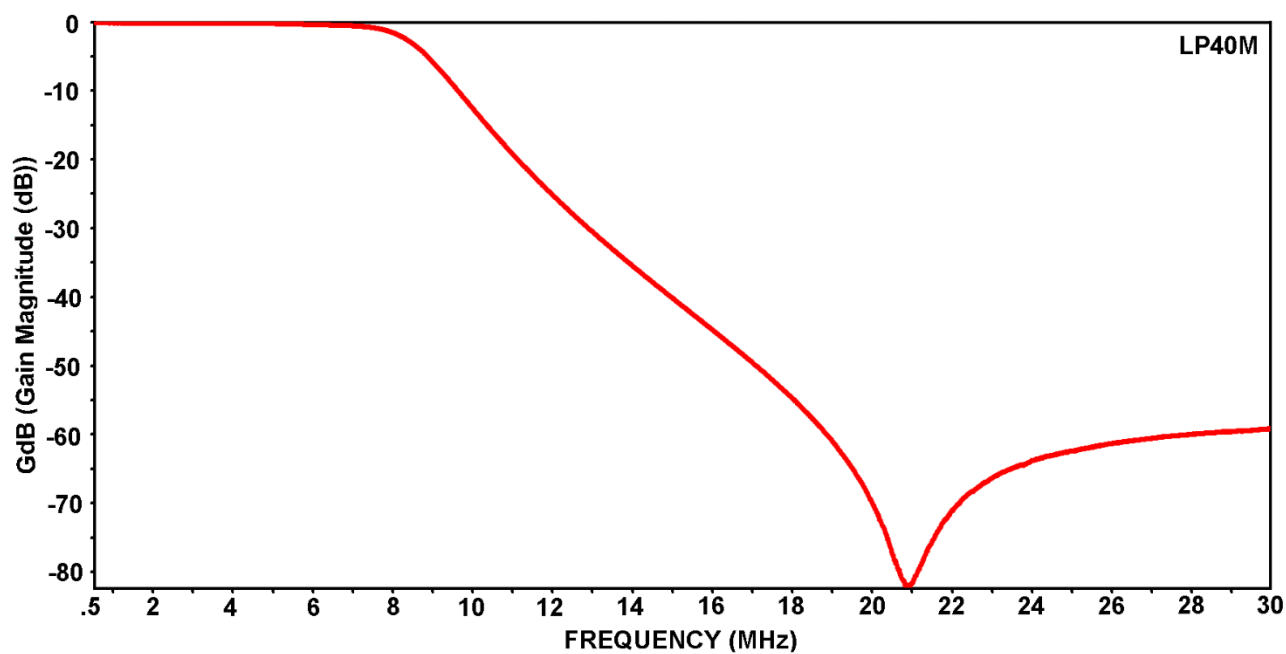
The following 18 charts show the response curves for the 18 optional filters that are available.



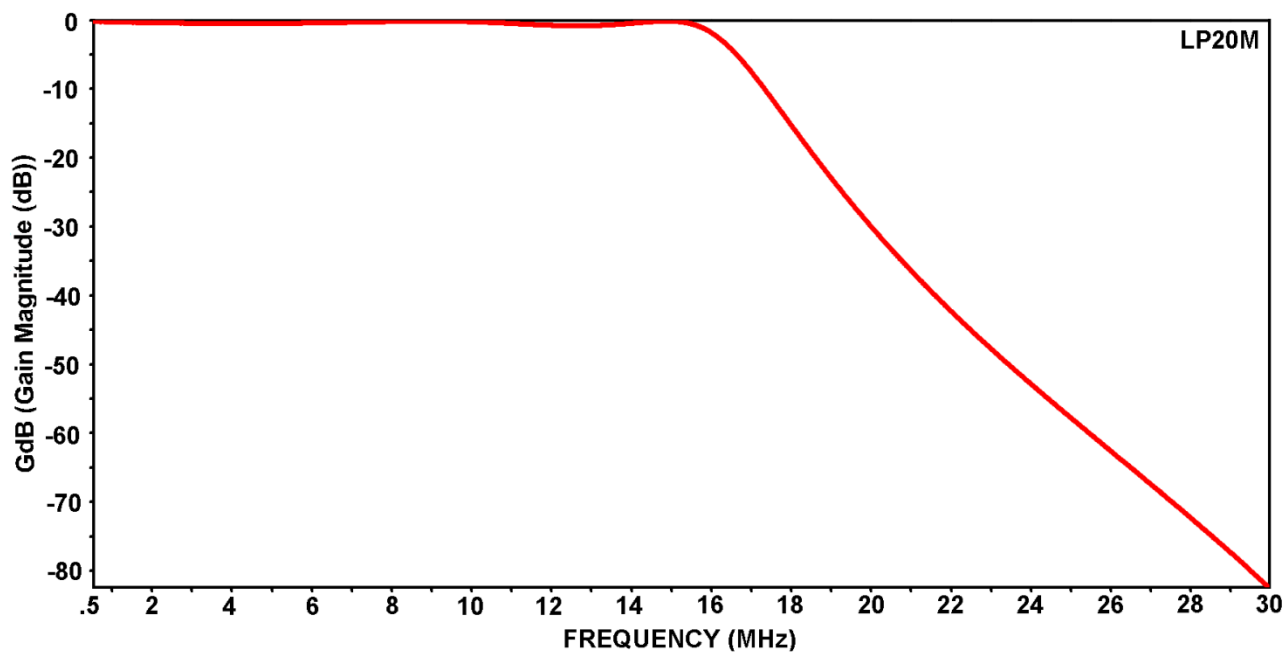
DXE-R-LP160-PM - Low Pass, 160 M and below - Cut off Frequency 2.30 MHz



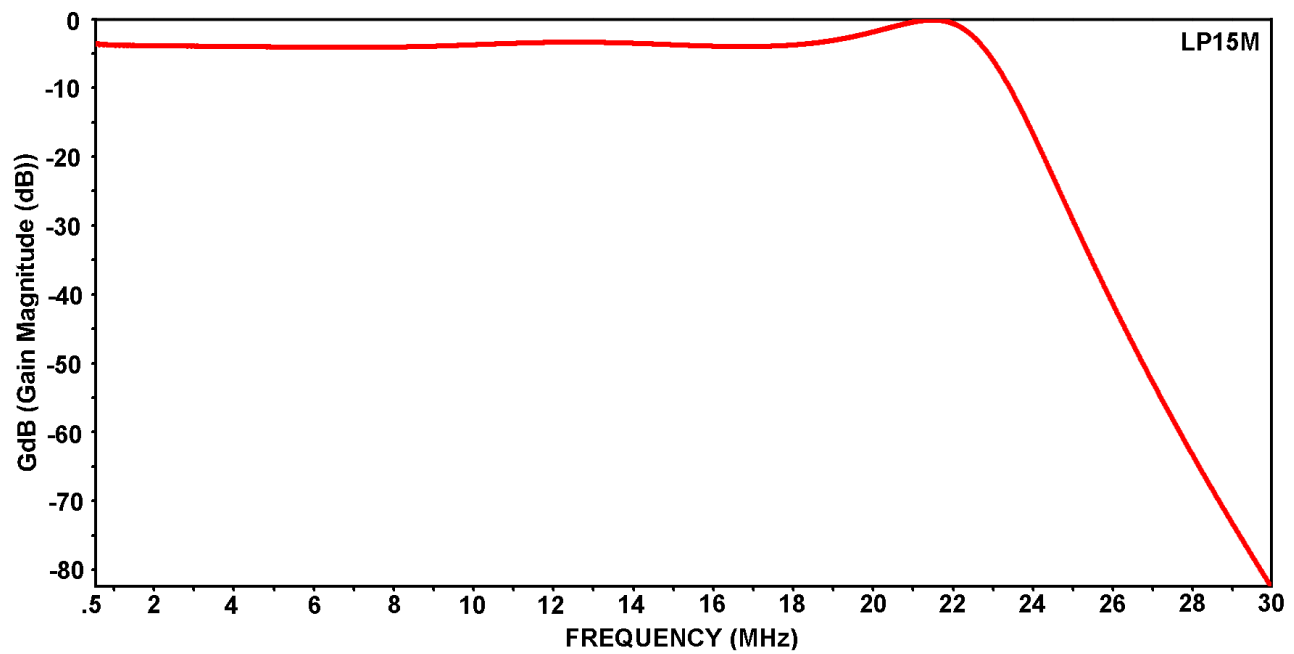
DXE-R-LP80-PM - Low Pass, 80 M and below - Cut off Frequency 4.00 MHz



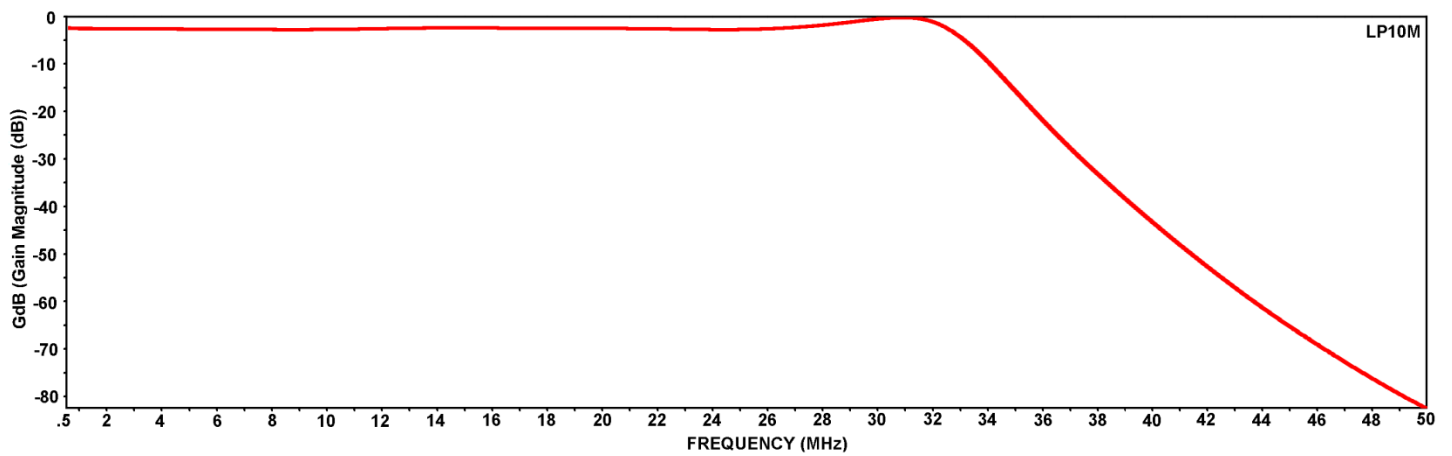
DXE-R-LP40-PM - Low Pass, 40 M and below - Cut off Frequency 7.50 MHz



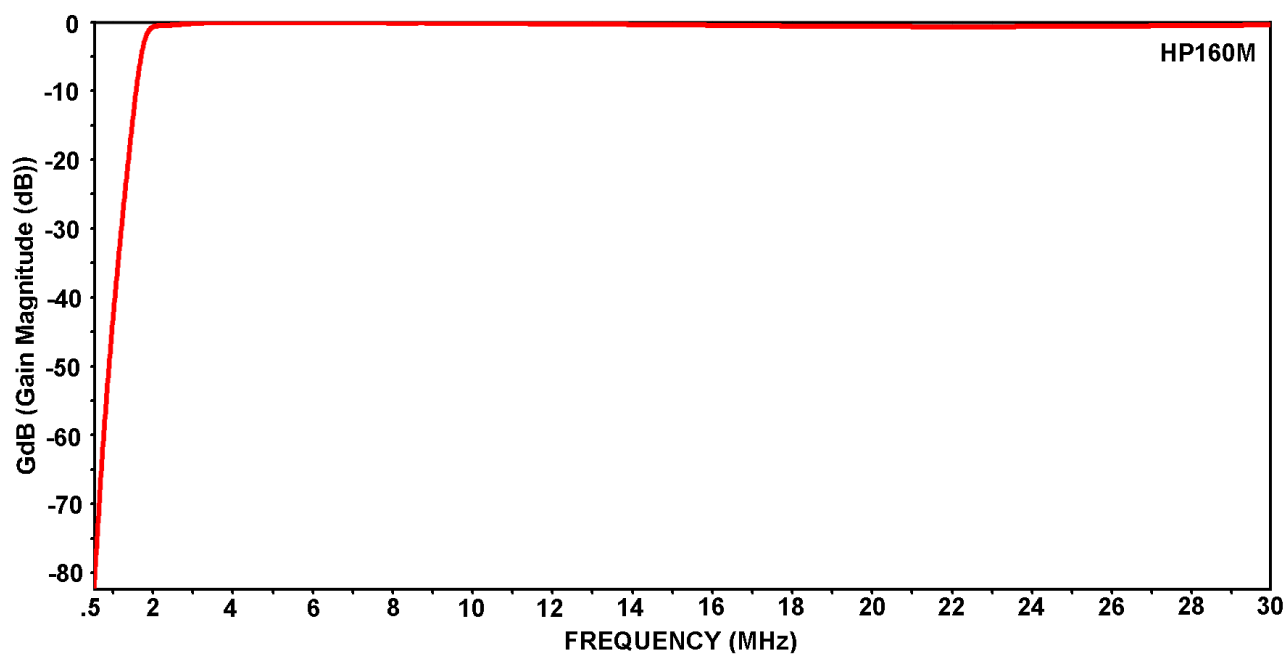
DXE-R-LP20-PM - Low Pass, 20 M and below - Cut off Frequency 15.00 MHz



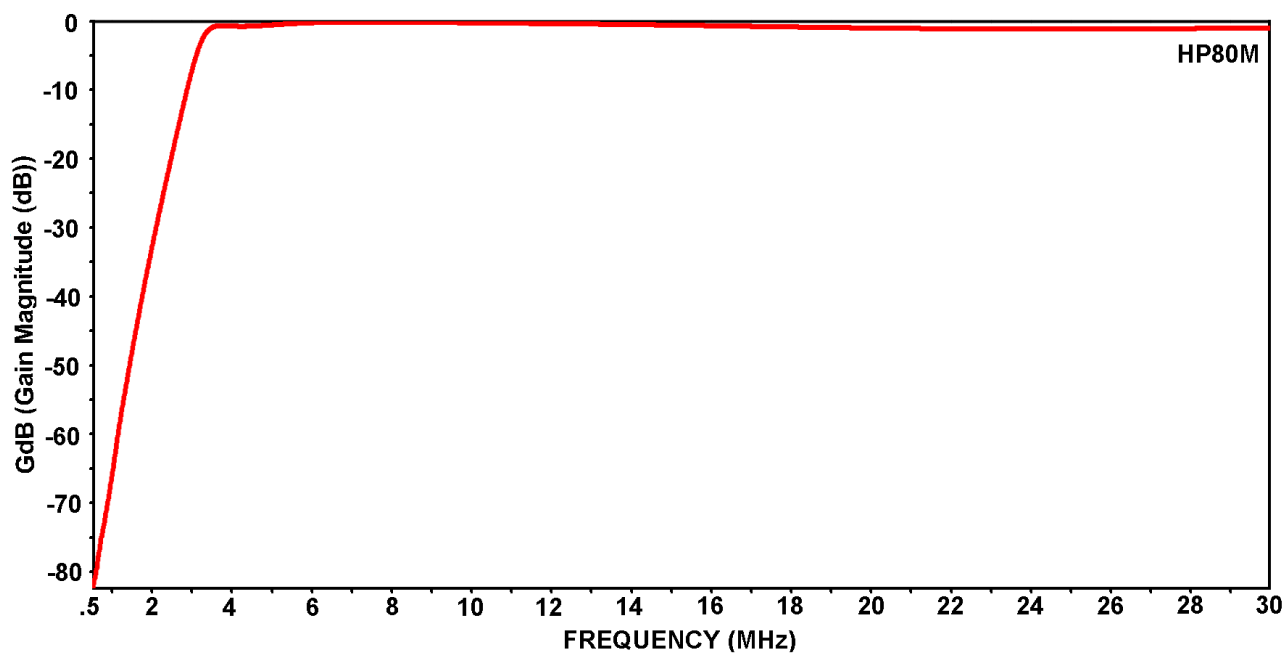
DXE-R-LP15-PM - Low Pass, 15 M and below - Cut off Frequency 22.00 MHz



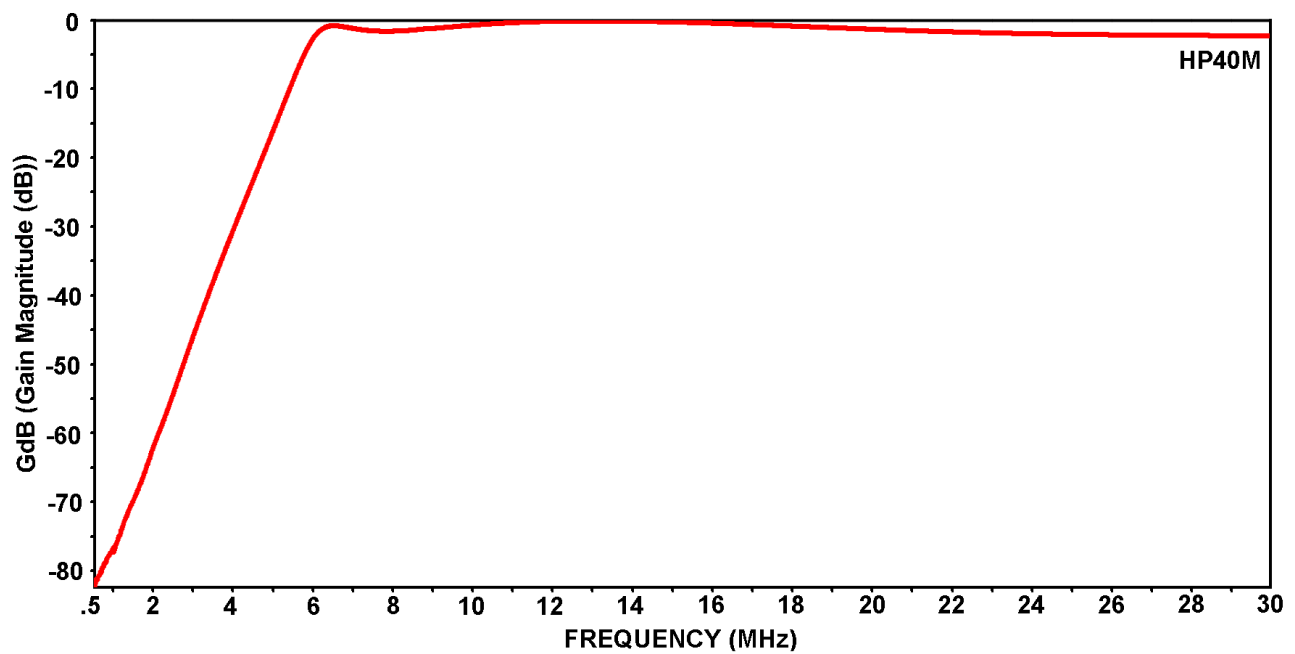
DXE-R-LP10-PM - Low Pass, 10 M and below - Cut off Frequency 30.00 MHz



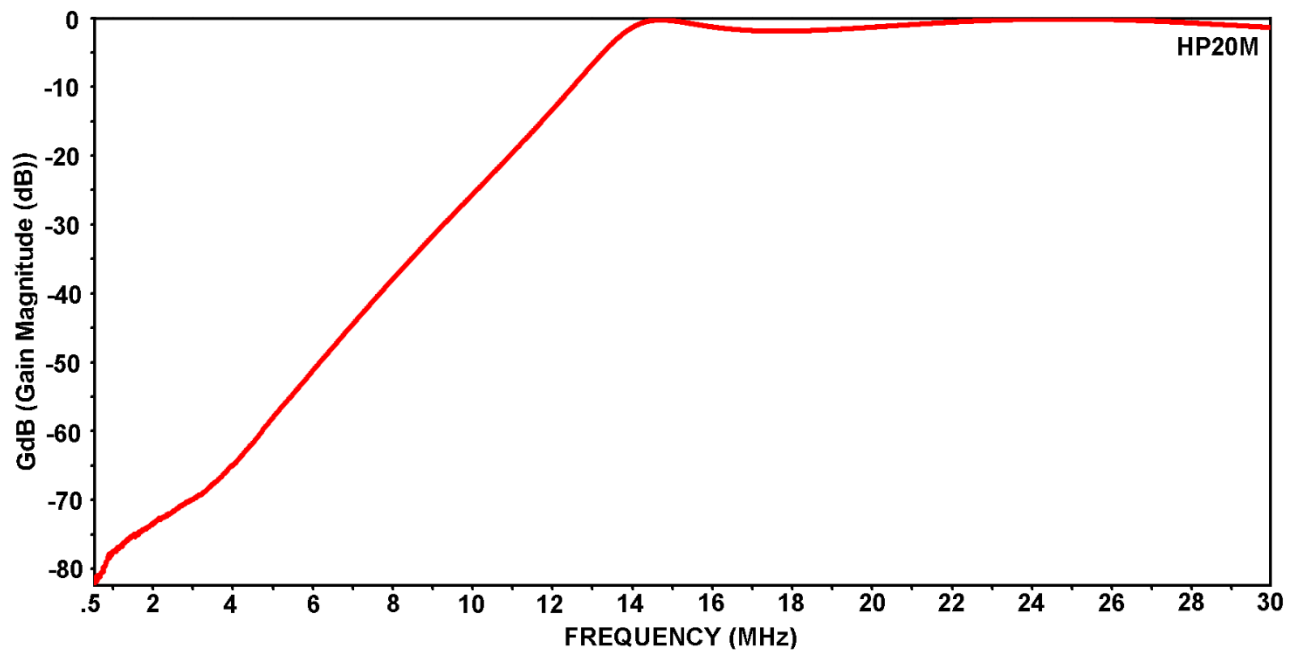
DXE-R-HP160-PM - High Pass, 160 M and above - Cut off Frequency 1.65 MHz



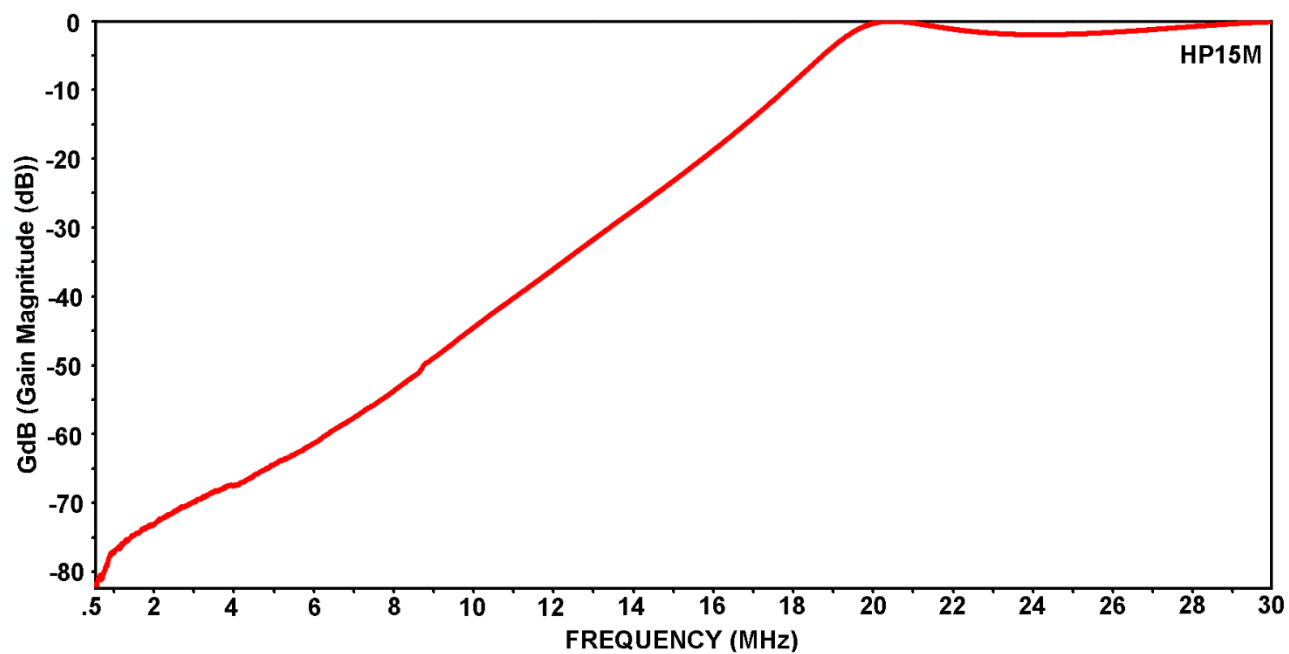
DXE-R-HP80-PM - High Pass, 80 M and above - Cut off Frequency 3.40 MHz



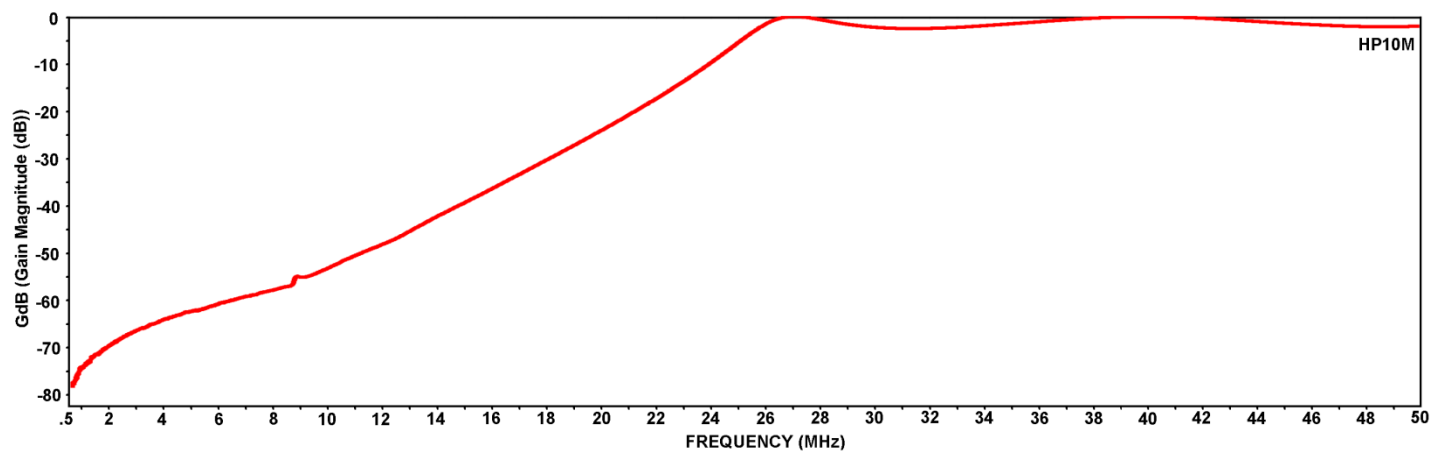
DXE-R-HP40-PM - High Pass, 40 M and above - Cut off Frequency 6.60 MHz



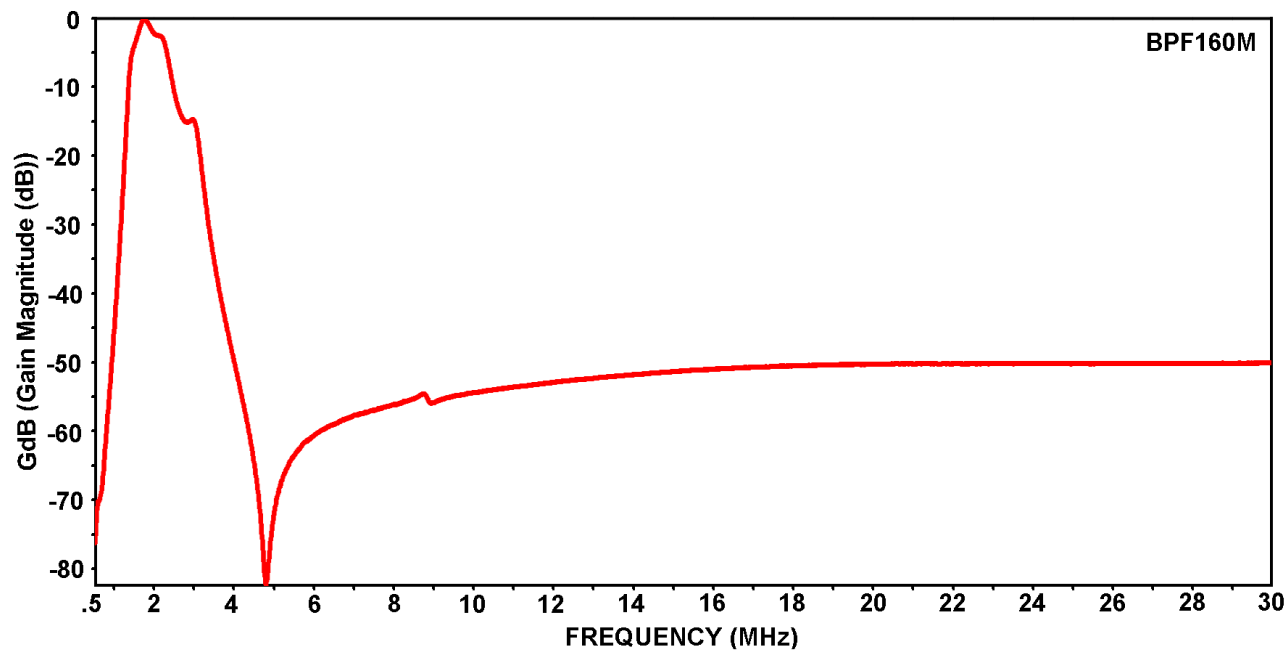
DXE-R-HP20-PM - High Pass, 20 M and above - Cut off Frequency 13.70 MHz



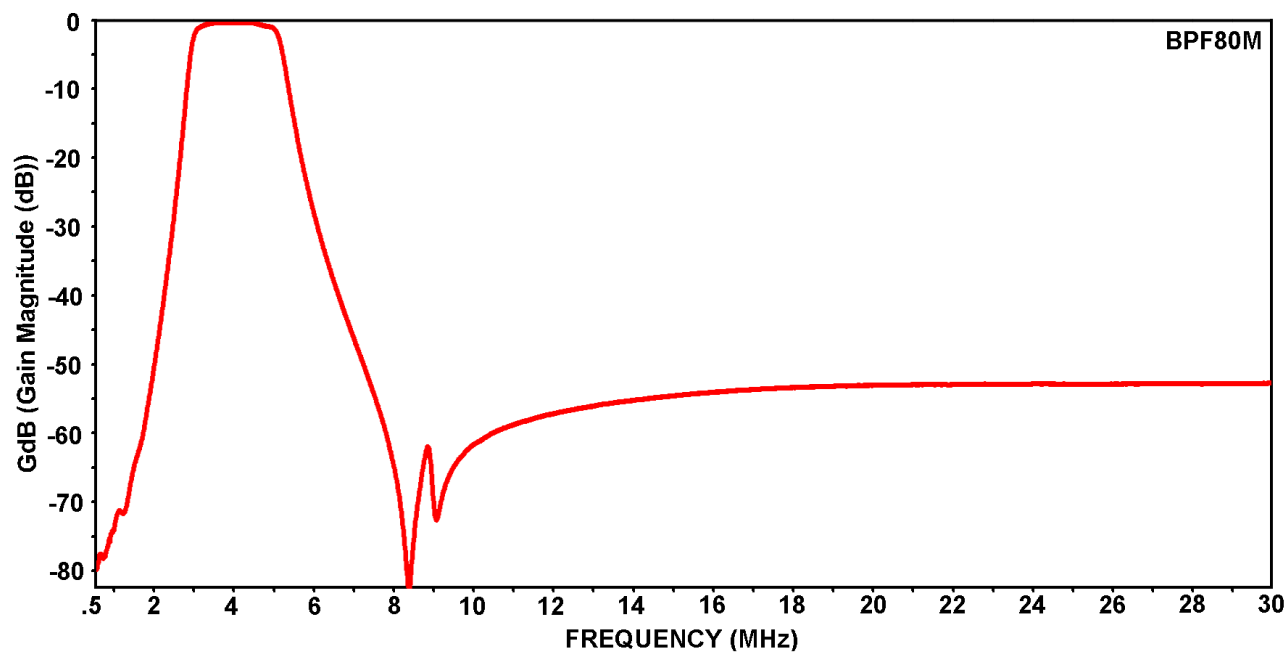
DXE-R-HP15-PM - High Pass, 15 M and above - Cut off Frequency 20.20 MHz



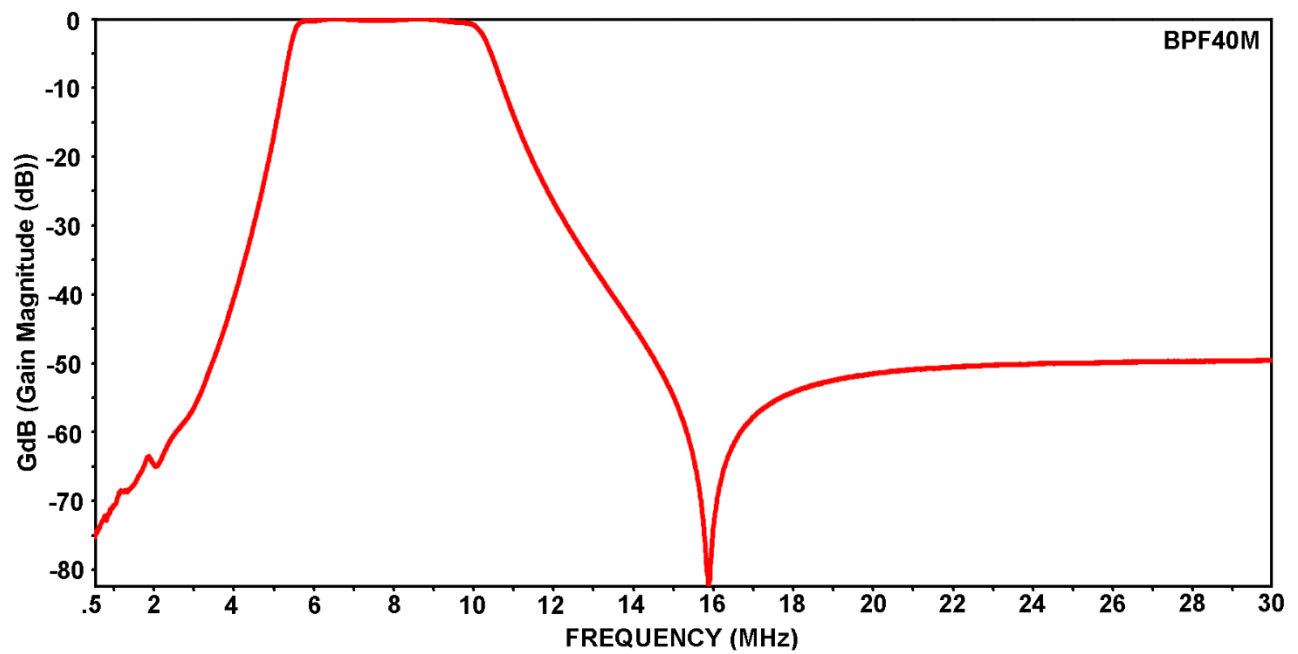
DXE-R-HP10-PM - High Pass, 10 M and above - Cut off Frequency 27.90 MHz



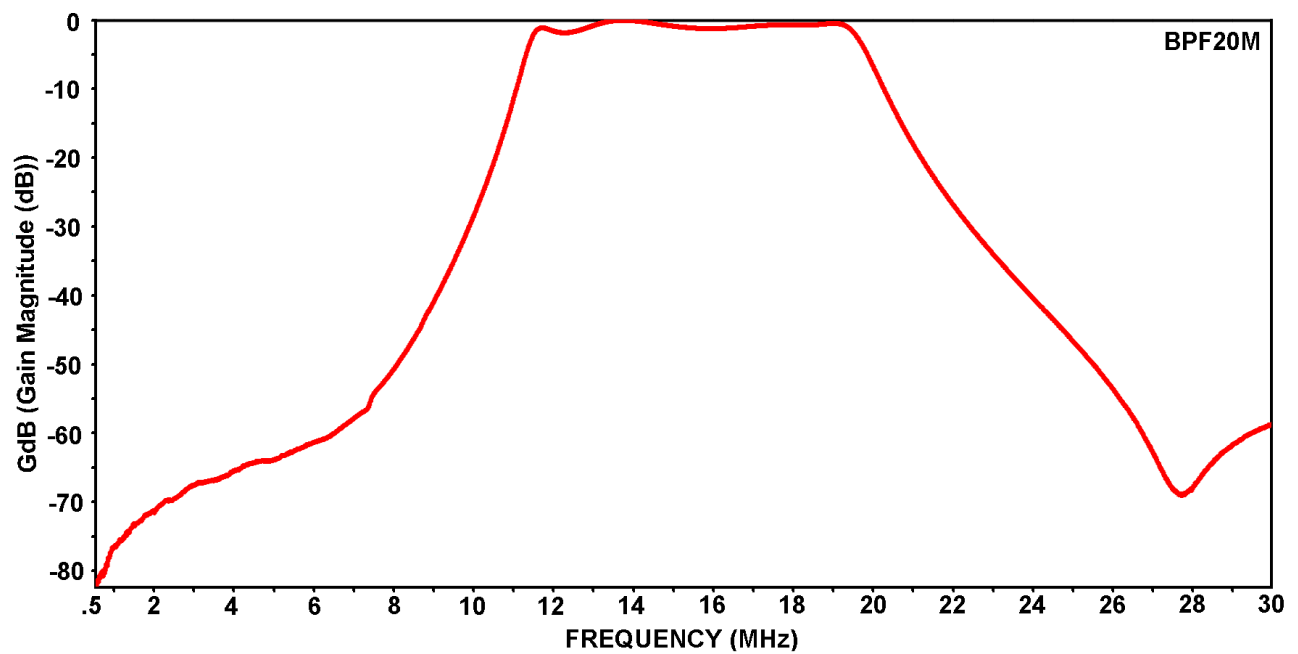
DXE-R-BP160-PM - Band Pass, 160 M only - Center Frequency 1.85 MHz



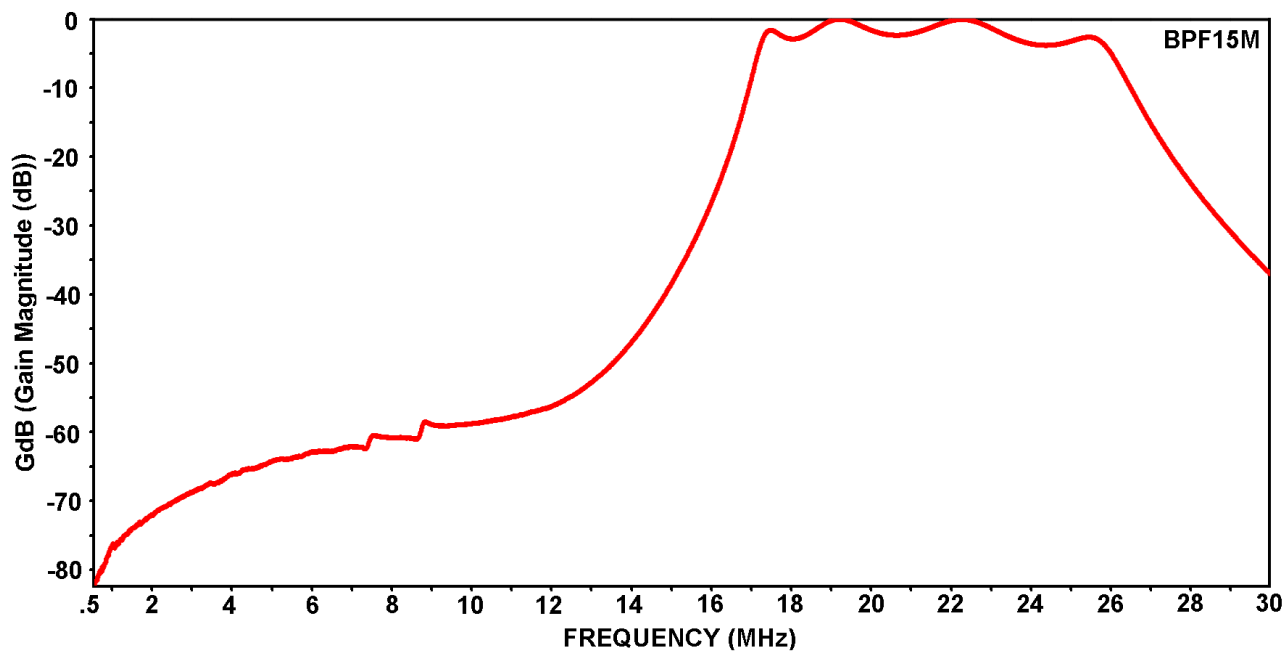
DXE-R-BP80-PM - Band Pass, 80 M only - Center Frequency 3.70 MHz



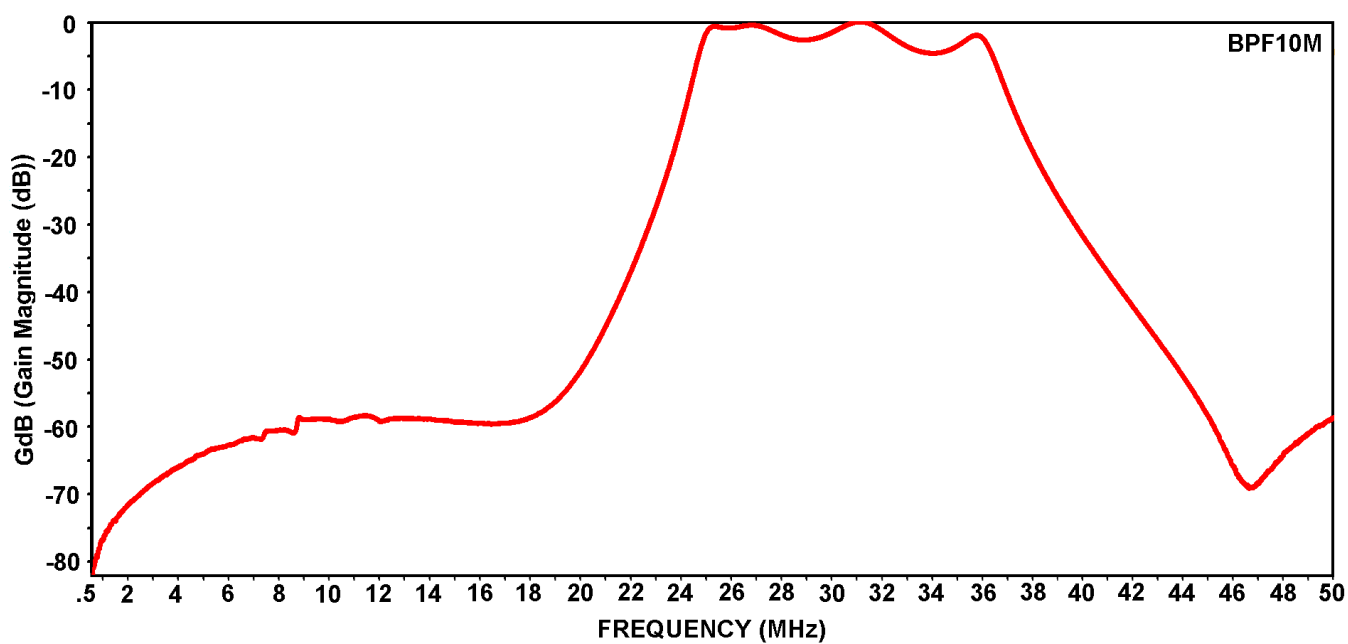
DXE-R-BP40-PM - Band Pass, 40 M only - Center Frequency 7.15 MHz



DXE-R-BP20-PM - Band Pass, 20 M only - Center Frequency 14.15 MHz



DXE-R-BP15-PM - Band Pass, 15 M only - Center Frequency 21.15 MHz



DXE-R-BP10-PM - Band Pass, 10 M only - Center Frequency 28.50 MHz

Receive Filters Chart - Rev 1

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