

Reverse Equalizer, 42 MHz, JXP Style Combination Pad/Cable EQ with True Tilt



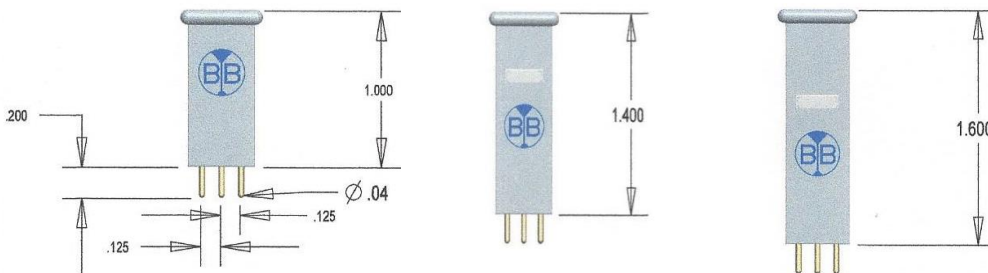
The combined pad and equalizer single plug-in is normally installed at the input RF flow of the upstream optical transmitter located inside the optical node. The optical node is located in the outside cable plant in most CATV system and connected to the Headend via a fiber optic cable. Most optical nodes only have a single input location to install the attenuator pad before the optical upstream transmitter. By combining the pad and equalizer into one plug-in device, this allows the signals to be pre-equalized before reaching the headend.

The equalizer portion supplies pre-equalization to the cable Headend processing equipment so that all signals in the return path will arrive at the CMTS and other reverse signal processing equipment at an equal level. The attenuator portion of the single plug-in will reduce the overall signal level to match the system design levels required in the headend as originally designed from the optical link. Obsolete

Features:

- Installs into most optical nodes to provide both attenuation as well as equalization in the upstream laser input path
- Available in 3 lengths of 1.0", 1.4", and 1.6"
- The 1.4" and 1.6" have a breakaway top that reduces to a 1" application (without t-top handle)
- The Equalizer value equals the total equalization between 5 to 42 MHz.
- All Equalizers are based on the Cable loss curve and not a Linear curve

Reverse Equalizer in JXP Combination Pad/EQ with 40-42 MHz Cable Equalization (in Black Plastic)		
PARAMETER	SPECIFICATION	Unit
Passband	5-42 MHz	MHz
Flatness	+/- 0.3	dB
Return Loss	-20	dB



Reverse Equalizer for Node Return Path
In JXP Combination Pad/EQ



JXP Pad/EQ with 42 MHz EQ					Total Combined Pad/EQ Insertion Loss				
Pad Value	EQ Value (True Tilt)	Length	Part No.	Slope	5 MHz	15 MHz	25 MHz	35 MHz	42 MHz
3 dB	3 dB	1.0"	5644033-1	3 dB	6	4.9	4.1	3.4	3
3 dB	3 dB	1.4"	5644033-4	3 dB	6	4.9	4.1	3.4	3
3 dB	3 dB	1.6"	5644033-6	3 dB	6	4.9	4.1	3.4	3
6 dB	2 dB	1.0"	5644062-1	2 dB	8	7.4	6.8	6.3	6
6 dB	2 dB	1.4"	5644062-4	2 dB	8	7.4	6.8	6.3	6
6 dB	2 dB	1.6"	5644062-6	2 dB	8	7.4	6.8	6.3	6
6 dB	3 dB	1.0"	5644063-1	3 dB	9	7.9	7.1	6.4	6
6 dB	3 dB	1.4"	5644063-4	3 dB	9	7.9	7.1	6.4	6
6 dB	3 dB	1.6"	5644063-6	3 dB	9	7.9	7.1	6.4	6
6 dB	4 dB	1.0"	5644064-1	4 dB	10	8.5	7.4	6.5	6
6 dB	4 dB	1.4"	5644064-4	4 dB	10	8.5	7.4	6.5	6
6 dB	4 dB	1.6"	5644064-6	4 dB	10	8.5	7.4	6.5	6
6 dB	5 dB	1.0"	5644065-1	5 dB	11	9.2	7.9	6.6	6
6 dB	5 dB	1.4"	5644065-4	5 dB	11	9.2	7.9	6.6	6
6 dB	5 dB	1.6"	5644065-6	5 dB	11	9.2	7.9	6.6	6
6 dB	6 dB	1.0"	5644066-1	6 dB	12	9.8	8.1	6.7	6
6 dB	6 dB	1.4"	5644066-4	6 dB	12	9.8	8.1	6.7	6
6 dB	6 dB	1.6"	5644066-6	6 dB	12	9.8	8.1	6.7	6
6 dB	7 dB	1.0"	5644067-1	7 dB	13	10.4	8.5	6.9	6
6 dB	7 dB	1.4"	5644067-4	7 dB	13	10.4	8.5	6.9	6
6 dB	7 dB	1.6"	5644067-6	7 dB	13	10.4	8.5	6.9	6
6 dB	8 dB	1.0"	5644068-1	8 dB	14	10.9	8.7	7.0	6
6 dB	8 dB	1.4"	5644068-4	8 dB	14	10.9	8.7	7.0	6
6 dB	8 dB	1.6"	5644068-6	8 dB	14	10.9	8.7	7.0	6
8 dB	2 dB	1.0"	5644082-1	2 dB	10	9.4	8.8	8.3	8
8 dB	2 dB	1.4"	5644082-4	2 dB	10	9.4	8.8	8.3	8
8 dB	2 dB	1.6"	5644082-6	2 dB	10	9.4	8.8	8.3	8
8 dB	3 dB	1.0"	5644083-1	3 dB	11	9.9	9.1	8.4	8
8 dB	3 dB	1.4"	5644083-4	3 dB	11	9.9	9.1	8.4	8
8 dB	3 dB	1.6"	5644083-6	3 dB	11	9.9	9.1	8.4	8
8 dB	4 dB	1.0"	5644084-1	4 dB	12	10.5	9.4	8.5	8
8 dB	4 dB	1.4"	5644084-4	4 dB	12	10.5	9.4	8.5	8
8 dB	4 dB	1.6"	5644084-6	4 dB	12	10.5	9.4	8.5	8
8 dB	5 dB	1.0"	5644085-1	5 dB	13	11.2	9.8	8.6	8
8 dB	5 dB	1.4"	5644085-4	5 dB	13	11.2	9.8	8.6	8
8 dB	5 dB	1.6"	5644085-6	5 dB	13	11.2	9.8	8.6	8



JXP Pad/EQ with 42 MHz EQ					Total Combined Pad/EQ Insertion Loss				
Pad Value	EQ Value (True Tilt)	Length	Part No.	Slope	5 MHz	15 MHz	25 MHz	35 MHz	42 MHz
10 dB	5 dB	1.0"	5644105-1	5 dB	15	13.2	11.8	10.6	10
10 dB	5 dB	1.4"	5644105-4	5 dB	15	13.2	11.8	10.6	10
10 dB	5 dB	1.6"	5644105-6	5 dB	15	13.2	11.8	10.6	10
10 dB	6 dB	1.0"	5644106-1	6 dB	16	13.8	12.1	10.7	10
10 dB	6 dB	1.4"	5644106-4	6 dB	16	13.8	12.1	10.7	10
10 dB	6 dB	1.6"	5644106-6	6 dB	16	13.8	12.1	10.7	10
10 dB	7 dB	1.0"	5644107-1	7 dB	17	14.4	12.5	10.9	10
10 dB	7 dB	1.4"	5644107-4	7 dB	17	14.4	12.5	10.9	10
10 dB	7 dB	1.6"	5644107-6	7 dB	17	14.4	12.5	10.9	10
11 dB	3 dB	1.0"	5644113-1	3 dB	14	13	12.1	11.4	11
11 dB	3 dB	1.4"	5644113-4	3 dB	14	13	12.1	11.4	11
11 dB	3 dB	1.6"	5644113-6	3 dB	14	13	12.1	11.4	11
11 dB	5 dB	1.0"	5644115-1	5 dB	16	14.2	12.8	11.6	11
11 dB	5 dB	1.4"	5644115-4	5 dB	16	14.2	12.8	11.6	11
11 dB	5 dB	1.6"	5644115-6	5 dB	16	14.2	12.8	11.6	11
11 dB	6 dB	1.0"	5644116-1	6 dB	17	14.8	13.1	11.7	11
11 dB	6 dB	1.4"	5644116-4	6 dB	17	14.8	13.1	11.7	11
11 dB	6 dB	1.6"	5644116-6	6 dB	17	14.8	13.1	11.7	11
11 dB	7 dB	1.0"	5644117-1	7 dB	18	15.4	13.5	11.9	11
11 dB	7 dB	1.4"	5644117-4	7 dB	18	15.4	13.5	11.9	11
11 dB	7 dB	1.6"	5644117-6	7 dB	18	15.4	13.5	11.9	11
12 dB	3 dB	1.0"	5644123-1	3 dB	15	14	13.1	12.4	12
12 dB	3 dB	1.4"	5644123-4	3 dB	15	14	13.1	12.4	12
12 dB	3 dB	1.6"	5644123-6	3 dB	15	14	13.1	12.4	12
12 dB	4 dB	1.0"	5644124-1	4 dB	16	15.5	13.4	12.5	12
12 dB	4 dB	1.4"	5644124-4	4 dB	16	15.5	13.4	12.5	12
12 dB	4 dB	1.6"	5644124-6	4 dB	16	15.5	13.4	12.5	12
12 dB	5 dB	1.0"	5644125-1	5 dB	17	15.2	13.8	12.6	12
12 dB	5 dB	1.4"	5644125-4	5 dB	17	15.2	13.8	12.6	12
12 dB	5 dB	1.6"	5644125-6	5 dB	17	15.2	13.8	12.6	12
12 dB	6 dB	1.0"	5644126-1	6 dB	18	15.8	14	12.7	12
12 dB	6 dB	1.4"	5644126-4	6 dB	18	15.8	14	12.7	12
12 dB	6 dB	1.6"	5644126-6	6 dB	18	15.8	14	12.7	12
12 dB	7 dB	1.0"	5644127-1	7 dB	19	16.4	14.4	12.9	12
12 dB	7 dB	1.4"	5644127-4	7 dB	19	16.4	14.4	12.9	12
12 dB	7 dB	1.6"	5644127-6	7 dB	19	16.4	14.4	12.9	12



JXP Pad/EQ with 42 MHz EQ					Total Combined Pad/EQ Insertion Loss				
Pad Value	EQ Value (True Tilt)	Length	Part No.	Slope	5 MHz	15 MHz	25 MHz	35 MHz	42 MHz
12 dB	8 dB	1.0"	5644128-1	8 dB	20	16.9	14.6	13	12
12 dB	8 dB	1.4"	5644128-4	8 dB	20	16.9	14.6	13	12
12 dB	8 dB	1.6"	5644128-6	8 dB	20	16.9	14.6	13	12