

JXP 1.2GHz Cable Simulators and Equalizers For Amplifier/Node Setup



Features & Benefits

- Precision cable simulators and equalizers for the forward (downstream) path
- Can be used in a wide variety of amp/nodes
- Available in three heights and colors
- For low/mid/high-split networks up to 1250MHz
- Electronics molded in plastic for protection and stability
- The designed-in standard by the top OEM amp/node manufacturers
- Designed to achieve unparalleled performance
- Gold plated pins to achieve long-life
- Designed and manufactured in the United States



Overview

PPC continues the tradition started by Communication Associates Inc. by offering world-class plug-in products to the cable industry. Technicians can set up their amps/nodes with confidence as these JXP style cable simulator and equalizer plug-ins are designed and built to precise values to meet the most exacting expectations. These plug-ins have a bandwidth of 54 – 1250MHz and are used in the forward (downstream) path of any amp/node with low-split (42/54MHz), mid-split (85/104MHz) and high-split (204/258MHz) networks.

Each JXP device is molded in solvent resistant polypropylene and has gold-plated pins to achieve long life. These are the U.S. designed and built plug-ins you can put in your amplifiers and nodes today that will provide reliable service for years to come.

Technical Data

Common Parameters

Specification	Value
Impedance	75 ohms, bidirectional
Max Power	0.125 Watts
Electrical Interface	3 pins, center ground. Pin/pin spacing 0.125 inch. All pins 0.038 +/-0.002 inches diameter Pin material: Brass with gold plating
Body Size	There are 3 height/lengths: 1.4, 1.2 and 1.0 inches (not including pins) The body width/depth is the same on all height/lengths: Width 0.425 +/-0.025, Depth 0.158 +/-0.10 inches
Body Material	Polypropylene
Marking	CS** = Where "***" is dB value of Cable Simulator printed on "T" handle CEQ** = Where "***" is dB value of Cable Equalizer printed on "T" handle
Operating Temp	-40°F to 176°F (-40°C to 80°C)

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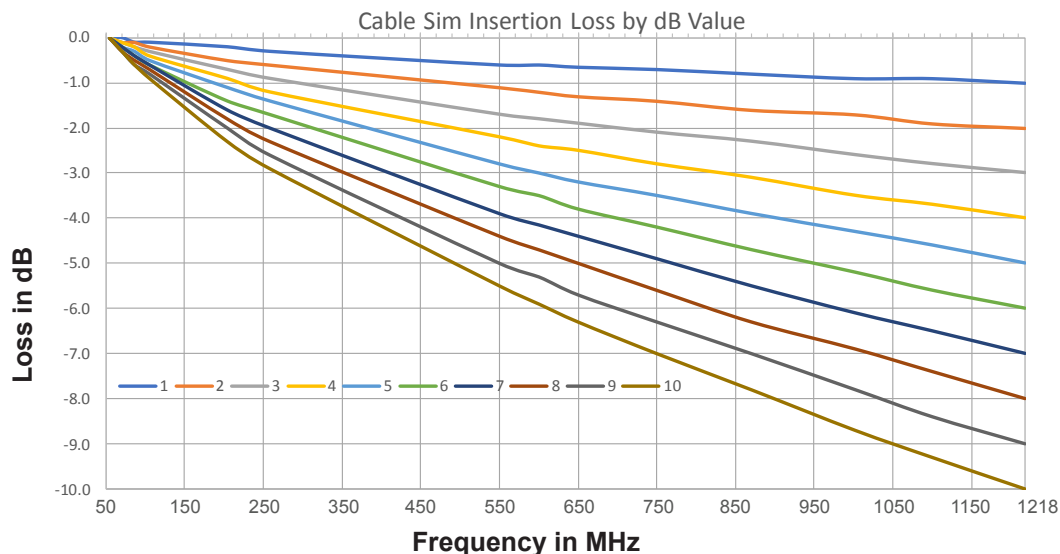


Technical Data

Cable Simulator Parameters

CS Value in dB	Bandwidth (MHz)	Tilt (dB) 54 – 1218MHz	Max Insertion Loss (dB) @ 54MHz	Flatness (dB) 5 – 1218MHz	Return Loss (dB) 5 – 1218MHz
1	54 - 1218	1 +/- 0.3	1	+/-0.3	>20
2	54 - 1218	2 +/- 0.3	1	+/-0.3	>20
3	54 - 1218	3 +/- 0.3	1	+/-0.3	>20
4	54 - 1218	4 +/- 0.3	1	+/-0.3	>20
5	54 - 1218	5 +/- 0.3	1	+/-0.3	>20
6	54 - 1218	6 +/- 0.3	1	+/-0.3	>20
7	54 - 1218	7 +/- 0.3	1	+/-0.3	>20
8	54 - 1218	8 +/- 0.3	1	+/-0.3	>20
9	54 - 1218	9 +/- 0.3	1	+/-0.3	>20
10	54 - 1218	10 +/- 0.3	1	+/-0.3	>20

CS Value in dB	Cable Simulator Loss in dB @ Frequencies in MHz													
	54	70	86	105	204	258	550	600	650	750	870	1002	1100	1218
1	0.0	0.0	-0.1	-0.1	-0.2	-0.3	-0.6	-0.6	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0
2	0.0	-0.1	-0.1	-0.2	-0.5	-0.6	-1.1	-1.2	-1.3	-1.4	-1.6	-1.7	-1.9	-2.0
3	0.0	-0.1	-0.2	-0.3	-0.7	-0.9	-1.7	-1.8	-1.9	-2.1	-2.3	-2.6	-2.8	-3.0
4	0.0	-0.1	-0.2	-0.4	-0.9	-1.2	-2.2	-2.4	-2.5	-2.8	-3.1	-3.5	-3.7	-4.0
5	0.0	-0.2	-0.3	-0.5	-1.1	-1.4	-2.8	-3.0	-3.1	-3.5	-3.9	-4.3	-4.6	-5.0
6	0.0	-0.2	-0.4	-0.6	-1.4	-1.7	-3.3	-3.5	-3.8	-4.2	-4.7	-5.2	-5.6	-6.0
7	0.0	-0.2	-0.4	-0.6	-1.6	-2.0	-3.9	-4.1	-4.4	-4.9	-5.5	-6.1	-6.5	-7.0
8	0.0	-0.3	-0.5	-0.7	-1.8	-2.3	-4.4	-4.7	-5.0	-5.6	-6.3	-6.9	-7.4	-8.0
9	0.0	-0.3	-0.6	-0.8	-2.0	-2.6	-5.0	-5.3	-5.7	-6.3	-7.0	-7.8	-8.4	-9.0
10	0.0	-0.3	-0.6	-0.9	-2.3	-2.9	-5.5	-5.9	-6.3	-7.0	-7.8	-8.7	-9.3	-10



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Technical Data

Cable Equalizer Parameters

CEQ Value in dB	Bandwidth (MHz)	Tilt (dB) 54 – 1218MHz	Max Insertion Loss (dB) @ 54MHz	Flatness (dB) 5 – 1218MHz	Return Loss (dB) 5 – 1218MHz
1	54 - 1218	1 +/- 0.3	1.0	+/-0.3	>19
2 - 11	54 - 1218	value +/- 0.3	1.0	+/-0.3	>20
12	54 - 1218	12 +/- 0.3	1.0	+/-0.3	>19
13 - 14	54 - 1218	value +/- 0.3	1.0	+/-0.3	>20
15 - 20	54 - 1218	value +/- 0.3	1.0	+/-0.3	>19
21 - 24	54 - 1218	value +/- 0.3	1.0	+/-0.3	>20

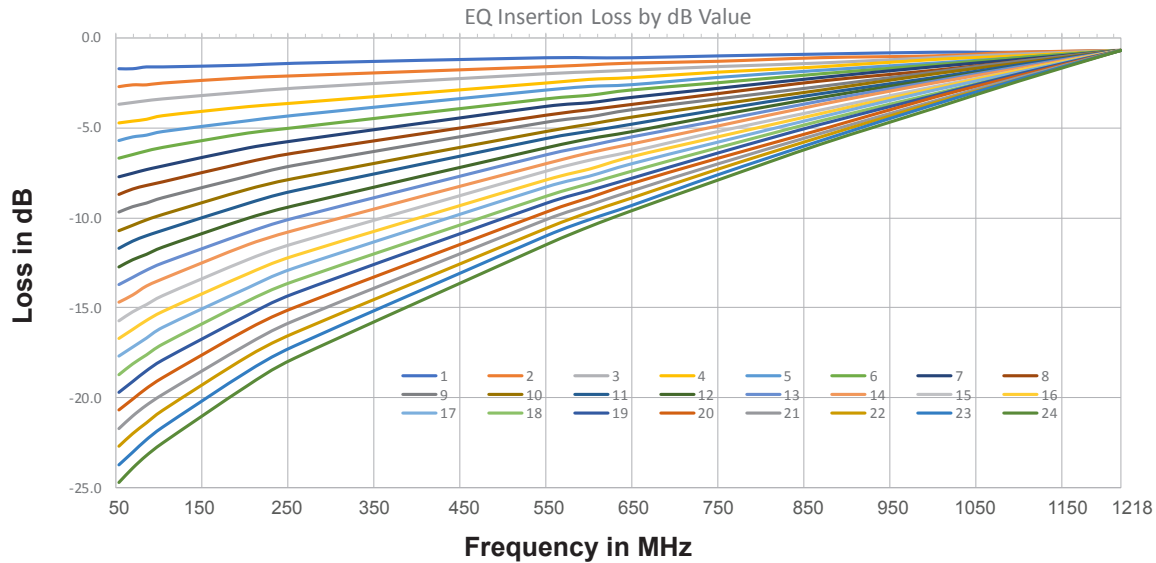
CEQ Value in dB	Cable Equalizer Loss in dB @ Frequencies in MHz											
	54	70	86	105	204	258	550	650	750	870	1002	1218
1	-1.7	-1.7	-1.6	-1.6	-1.5	-1.4	-1.1	-1.1	-1	-0.9	-0.8	-0.7
2	-2.7	-2.6	-2.6	-2.5	-2.2	-2.1	-1.6	-1.4	-1.3	-1.1	-1	-0.7
3	-3.7	-3.6	-3.5	-3.4	-3	-2.8	-2	-1.8	-1.6	-1.4	-1.1	-0.7
4	-4.7	-4.6	-4.5	-4.3	-3.8	-3.6	-2.5	-2.2	-1.9	-1.6	-1.2	-0.7
5	-5.7	-5.5	-5.4	-5.2	-4.6	-4.3	-2.9	-2.6	-2.2	-1.8	-1.4	-0.7
6	-6.7	-6.5	-6.3	-6.1	-5.3	-5	-3.4	-2.9	-2.5	-2	-1.5	-0.7
7	-7.7	-7.5	-7.3	-7.1	-6.1	-5.7	-3.8	-3.3	-2.8	-2.2	-1.6	-0.7
8	-8.7	-8.4	-8.2	-8	-6.9	-6.4	-4.3	-3.7	-3.1	-2.4	-1.8	-0.7
9	-9.7	-9.4	-9.2	-8.9	-7.7	-7.1	-4.7	-4	-3.4	-2.7	-1.9	-0.7
10	-10.7	-10.4	-10.1	-9.8	-8.4	-7.8	-5.2	-4.4	-3.7	-2.9	-2	-0.7
11	-11.7	-11.3	-11	-10.7	-9.2	-8.5	-5.6	-4.8	-4	-3.1	-2.2	-0.7
12	-12.7	-12.3	-12	-11.6	-10	-9.3	-6.1	-5.2	-4.3	-3.3	-2.3	-0.7
13	-13.7	-13.3	-12.9	-12.5	-10.8	-10	-6.5	-5.5	-4.6	-3.5	-2.4	-0.7
14	-14.7	-14.3	-13.8	-13.4	-11.5	-10.7	-7	-5.9	-4.9	-3.7	-2.5	-0.7
15	-15.7	-15.2	-14.8	-14.3	-12.3	-11.4	-7.4	-6.3	-5.2	-4	-2.7	-0.7
16	-16.7	-16.2	-15.7	-15.2	-13.1	-12.1	-7.9	-6.6	-5.5	-4.2	-2.8	-0.7
17	-17.7	-17.2	-16.7	-16.1	-13.9	-12.8	-8.3	-7	-5.8	-4.4	-2.9	-0.7
18	-18.7	-18.1	-17.6	-17	-14.6	-13.5	-8.8	-7.4	-6.1	-4.6	-3.1	-0.7
19	-19.7	-19.1	-18.5	-17.9	-15.4	-14.2	-9.2	-7.8	-6.4	-4.8	-3.2	-0.7
20	-20.7	-20.1	-19.5	-18.9	-16.2	-15	-9.7	-8.1	-6.7	-5.1	-3.3	-0.7
21	-21.7	-21	-20.4	-19.8	-17	-15.7	-10.1	-8.5	-7	-5.3	-3.5	-0.7
22	-22.7	-22	-21.4	-20.7	-17.7	-16.4	-10.6	-8.9	-7.3	-5.5	-3.6	-0.7
23	-23.7	-23	-22.3	-21.6	-18.5	-17.1	-11	-9.3	-7.6	-5.7	-3.7	-0.7
24	-24.7	-23.9	-23.2	-22.5	-19.3	-17.8	-11.5	-9.6	-7.9	-5.9	-3.9	-0.7

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Technical Data

Cable Equalizer Parameters (cont)



Ordering Information

Cable Simulators

dB value	1.4" Tall Light Blue	1.2" Tall Light Purple	1" Tall Light Blue
1	CA045101	CA054301	CA045201
2	CA045102	CA054302	CA045202
3	CA045103	CA054303	CA045203
4	CA045104	CA054304	N/A
5	CA045105	CA054305	N/A
6	CA045106	CA054306	N/A
7	CA045107	CA054307	N/A
8	CA045108	CA054308	N/A
9	CA045109	CA054309	N/A
10	CA045110	CA054310	N/A

Cable Equalizers

dB value	1.4" Tall Light Blue	1.2" Tall Gray
2	CA045402	CA054202
3	CA045403	CA054203
4	CA045404	CA054204
5	CA045405	CA054205
6	CA045406	CA054206
7	CA045407	CA054207
8	CA045408	CA054208
9	CA045409	CA054209
10	CA045410	CA054210
11	CA045411	CA054211
12	CA045412	CA054212
13	CA045413	CA054213
14	CA045414	CA054214
15	CA045415	CA054215
16	CA045416	CA054216
17	CA045417	CA054217
18	CA045418	CA054218
29	CA045419	CA054219
20	CA045420	CA054220
21	CA045421	CA054221

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