



Tap Plug-Ins – 1218 MHz for 1.2 GHz Taps

For **ARRIS[®]/Motorola[®], ARRIS[®]/Regal[®], Antronix[®], or Technetix 1.2 GHz Taps**

Cable Equalizer (CE) Plug-In Module

The tap cable equalizer (CE) is typically utilized to equalize the bandwidth from 5 to 1218 MHz. The CE equalizes the reverse tilt associated with long coaxial distribution lines. The CE will reduce the levels of the lower frequencies with minimal attenuation at the higher frequencies. The CE is normally installed in low value taps toward the end of the distribution system which exhibit reverse tilt in the forward path.

Cable Equalizers – 5 to 1218 MHz												
BBI Part Number	3561202Q	3561204Q	3561206Q	3561208Q	3561210Q	3561212Q	3561214Q	3561216Q	3561218Q	3561220Q	3561222Q	
Reference	T-EQ-2-Q	T-EQ-4-Q	T-EQ-6-Q	T-EQ-8-Q	T-EQ-10-Q	T-EQ-12-Q	T-EQ-14-Q	T-EQ-16-Q	T-EQ-18-Q	T-EQ-20-Q	T-EQ-22 Q	
Value	2	4	6	8	10	12	14	16	18	20	22	
	Freq (MHz)											
Drop Insertion Loss* (dB nominal)	5	3	4	6.2	7.8	9.2	11.1	12.9	14.8	18	20	22
	50	2.9	4	6.1	7.7	9.1	11	12.5	14.5	18	20	22
	85	2.9	4	6	7.6	8.9	10.7	12.5	14	17.6	18.7	20
	105	2.8	4	5.9	7.6	8.9	10.7	11.4	14	17	18	19.3
	300	2.4	3.7	4.7	5.9	7.2	8.6	9.4	10.8	12.1	12.4	12.4
	450	2.1	3	3.7	4.5	5.6	6.6	7	8.3	8.9	8.9	8.9
	550	1.9	2.5	3.1	3.8	4.5	5.4	5.6	6.8	7.1	7.1	7.1
	750	1.5	1.5	2.1	2.2	2.4	3.1	3.2	4.2	4.1	4.2	4.2
	870	1.1	1.2	1.5	1.5	1.6	2.1	2.2	2.9	2.9	2.9	2.9
	1003	1	1	1	1	1.1	1.2	1.1	1.8	1.8	1.8	1.8
1218	1	1	1	1	1.1	1.1	1.1	1.2	1.4	1.4	1.4	

*Loss per value in addition to the tap



Cable Simulator (CS) Plug-In Module

The tap cable simulator (CS) is typically utilized in designs where amplifiers have a high output tilt levels. The CS simulates a fixed amount of cable and reduces the higher tilt associated with the output of the optical node or amplifier. The CS is the opposite of the CE. The CS is normally installed in the taps near the node or amplifier.

Cable Simulators – 5 to 1218 MHz

BBI Part number	3561202CQ	3561204CQ	3561206CQ	3561208CQ	3561210CQ	3561212CQ	3561215CQ	3561218CQ	3561221CQ
Reference	T-CS-2-Q	T-CS-4-Q	T-CS-6-Q	T-CS-8-Q	T-CS-10-Q	T-CS-12-Q	T-CS-15-Q	T-CS-18-Q	T-CS-21-Q
Value	2	4	6	8	10	12	15	18	21
	Freq (MHz)								
Drop Insertion Loss* (dB nominal)	5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	50	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
	85	0.2	0.2	0.3	0.3	0.5	0.6	0.6	0.7
	105	0.2	0.3	0.5	0.5	0.7	0.8	1	1.3
	300	0.6	1.4	1.9	2.2	3.1	3.3	3.9	4.5
	450	1	2.2	3	3.7	5.1	5.4	6.5	7.4
	550	1.3	2.7	3.7	4.7	6.3	6.8	8.1	9.4
	750	1.7	3.4	4.9	6.5	8.4	9.2	11.3	13.2
	870	1.9	3.8	5.5	7.5	9.3	10.5	13.3	15.7
	1003	2.1	4.1	6.1	8.3	10.2	11.7	14.7	18.2
1218	2.3	4.4	6.7	9.3	11	12.7	15.6	19	

*Loss per value in addition to the tap



Return Path Attenuator (RPA) Plug-In Module – 42 or 85 MHz

The tap return path attenuator (RPA) is typically utilized in systems with long coaxial distribution lines. The return path attenuator is normally installed in low value taps toward the end of the distribution system which exhibit low loss in the return path. The RPA plug-in adds additional attenuation in the reverse path to improve the signal to noise ratio for a specific customer in the return path.

The 1218 Return Path Attenuators for the 1.2 GHz taps can also be utilized in any 1 GHz tap that accepts this style plug-ins.

Return Path Attenuators – 5 to 42 MHz and Forward Bandpass 54 to 1218 MHz

BBI Part Number	357402RQ	357404RQ	357406RQ	357408RQ	357410RQ	357412RQ	357414RQ	357416RQ	357418RQ	
Reference	T-RPA/42-2	T-RPA/42-4	T-RPA/42-6	T-RPA/42-8	T-RPA/42-10	T-RPA/42-12	T-RPA/42-14	T-RPA/42-16	T-RPA/42-18	
Return Bandwidth	5-42 MHz	5-42 MHz	5-42 MHz	5-42 MHz	5-42 MHz	5-42 MHz	5-42 MHz	5-42 MHz	5-42 MHz	
Return Path Attenuation Value	2.5	4.5	6.5	8.5	10.5	12.5	14.5	16.5	18.5	
Tolerance	5-30 MHz	1	1	1	1	1	1.3	1.6	1.6	2
	31-42 MHz	2	2	2	2	2	2	2	2.5	2.5
Drop Insertion Loss* (dB nominal)	54	2	2	2	2	2	2	2	2	2
	105	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	550	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	750	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	870	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	1003	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
1218	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	

*Loss per value in addition to the tap

Return Path Attenuators – 5 to 85 MHz and Forward Bandpass 104 to 1218 MHz

BBI Part Number	359802RQ	359804RQ	359806RQ	359808RQ	359810RQ	359812RQ	359814RQ	359816RQ	359818RQ	
Reference	T-RPA/85-2	T-RPA/85-4	T-RPA/85-6	T-RPA/85-8	T-RPA/85-10	T-RPA/85-12	T-RPA/85-14	T-RPA/85-16	T-RPA/85-18	
Return Bandwidth	5-85 MHz	5-85 MHz	5-85 MHz	5-85 MHz	5-85 MHz	5-85 MHz	5-85 MHz	5-85 MHz	5-85 MHz	
Return Path Attenuation Value	2	4	6	8	10	12	14	16	18	
Tolerance	5-50 MHz	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2	2
	51-80 MHz	2	2	2	2	2	2	2.1	2.1	2.1
Drop Insertion Loss* (dB nominal)	104	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	106	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	300	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	550	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	750	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	870	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	1003	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1218	1	1	1	1	1	1.2	1.2	1.2	1.2	

*Loss per value in addition to the tap