

T-*₋Q Series Plug-ins

T-EQ-*₋Q Equalizers, T-CS-*₋Q Cable Simulators,

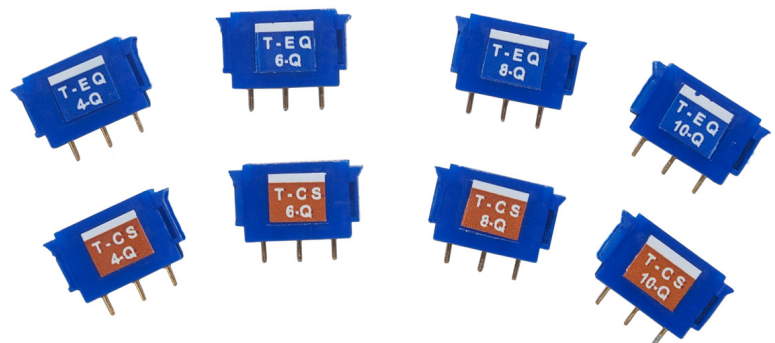
T-RPA/*₋* Return Path Attenuators

1.2 GHz Tap Signal Conditioning Plug-ins

FEATURES

- Support DOCSIS® 3.1 expanded bandwidth up to 1218 MHz
- Improve network performance with signal conditioning plug-ins
- Compatible with 1.2 GHz FFT-*₋Q Series Taps
- Compatible with 1.2 GHz Regal RMT2120 Series Taps

The CommScope T-*₋Q series RF Tap Signal Conditioning Plug-ins allow for signal conditioning with the CommScope 1.2 GHz FFT-*₋Q and 1.2 GHz Regal® RMT2120 series taps. These optional plug-ins are field configurable modules that include cable equalizers, return path attenuators, and cable simulators. These plug-ins allow for drop signal conditioning without affecting the main feederline path. The conditioning plug-in that is selected affects all ports equally.



SPECIFICATIONS CABLE EQUALIZER PLUG-IN MODULE (5–1218 MHZ)

Specification	Freq (MHz)	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
EQ Value (dB nominal)	1003	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0
Drop Insertion	5	2.9	4.1	6.2	7.8	9.2	11.1	12.9	14.8	18.1	20.0	22.0
Loss* (dB max)	50	2.9	4.1	6.1	7.6	9.1	11.0	12.5	14.5	18.1	20.0	22.0
	85	2.9	4.1	6.0	7.6	8.9	10.8	12.5	14.0	17.6	18.6	20.0
	104	2.8	4.1	5.9	7.6	8.9	10.8	11.3	14.0	17.0	18.0	19.2
	204	2.4	3.7	5.0	6.4	7.6	9.3	10.2	12.0	13.9	14.3	14.7
	258	2.4	3.6	4.7	5.9	7.2	8.6	9.4	11.0	12.6	12.8	13.0
	300	2.4	3.6	4.7	5.9	7.2	8.6	9.4	10.9	12.1	12.4	12.4
	450	2.1	3.0	3.7	4.6	5.6	6.6	7.0	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	4.2	4.2	4.2
	870	1.2	1.2	1.5	1.5	1.6	2.1	2.2	2.9	2.9	2.9	2.9
	1000	1.0	1.0	0.9	1.1	1.1	1.2	1.2	1.8	1.8	1.8	1.8
	1218	1.0	1.0	0.9	1.1	1.1	1.1	1.1	1.2	1.5	1.5	1.5
Forward Response Flatness (dB max)	—	± 0.5	± 0.5	± 0.5	± 0.7	± 0.7	± 0.7	± 0.8	± 0.9	± 1.2	± 1.2	± 1.2

* The insertion loss specifications shown are in addition to the nominal tap value loss.

SPECIFICATIONS CABLE SIMULATOR PLUG-IN MODULE (5–1218 MHZ)

Specification	Freq (MHz)	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
Cable Simulator Value (dB nom)	1218	2.0	4.0	6.0	8.0	10.0	12.0	15.0	18.0	21.0
Drop Insertion	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Loss* (dB max)	50	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.4
	85	0.2	0.2	0.3	0.3	0.5	0.6	0.6	0.7	0.9
	104	0.2	0.3	0.5	0.5	0.7	0.8	1.0	1.1	1.3
	204	0.3	0.6	0.9	1.0	1.7	1.8	1.9	2.0	2.8
	258	0.4	0.8	1.2	1.5	2.4	2.5	2.7	2.9	3.8
	300	0.6	1.4	1.9	2.2	3.1	3.3	3.9	4.5	5.3
	450	1.0	2.2	3.0	3.7	5.1	5.4	6.5	7.4	8.6
	550	1.3	2.7	3.7	4.7	6.3	6.8	8.1	9.4	11.0
	750	1.7	3.4	4.9	6.5	8.4	9.2	11.3	13.2	16.0
	870	1.9	3.8	5.5	7.5	9.3	10.5	13.3	15.7	18.8
	1000	2.1	4.1	6.1	8.3	10.2	11.7	14.7	18.2	21.0
	1218	2.3	4.4	6.7	9.3	11.0	12.7	15.6	19.0	21.5
Forward Response Flatness (dB max)	5–1003	± 0.5	± 0.5	± 0.5	± 0.5	± 0.7	± 0.7	± 0.7	± 0.8	± 0.8

* The insertion loss specifications shown are in addition to the nominal tap value loss.

SPECIFICATIONS RETURN PATH ATTENUATOR PLUG-IN MODULE (5–1218 MHZ)

Specification	Freq (MHz)	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 Attenuation (dB nominal)	5–42	2.5	4.5	6.5	8.5	10.5	12.5	14.5	16.5	18.5	
Tolerance (± dB max)	5-30 31–42	1.0 2.0	1.0 2.0	1.0 2.0	1.0 2.0	1.0 2.0	1.4 2.0	1.6 2.0	1.6 2.5	2.1 2.5	
Drop Insertion Loss* (dB max)	54 100 300 550 750 870 1000 1218	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9	2.0 0.3 0.3 0.4 0.6 0.7 0.7 0.9

* The insertion loss specifications shown are in addition to the nominal tap value loss.

SPECIFICATIONS RETURN PATH ATTENUATOR PLUG-IN MODULE (5–1218 MHZ)

Specification	Freq (MHz)	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 Attenuation (dB nominal)	5–85	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	
Tolerance (± dB max)	5–50 51–80	1.5 2.0	1.5 2.0	1.5 2.0	1.5 2.0	1.5 2.0	1.5 2.0	1.8 2.0	2.0 2.0	2.0 2.0	
Drop Insertion Loss* (dB max)	104 106 300 550 750 870 1000 1218	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.0	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.0	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.0	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.0	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.0	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.0	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.2	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.2	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.2	2.2 1.8 0.5 0.6 0.7 0.7 0.8 1.2

* The insertion loss specifications shown are in addition to the nominal tap value loss.

ORDERING INFORMATION

Equalizers and Cable Simulators			
Equalizer Part Number	Model Number	Cable Simulator Part Number	Model Number
595304-001-00	T-EQ-2-Q	595303-001-00	T-CS-2-Q
595304-002-00	T-EQ-4-Q	595303-002-00	T-CS-4-Q
595304-003-00	T-EQ-6-Q	595303-003-00	T-CS-6-Q
595304-004-00	T-EQ-8-Q	595303-004-00	T-CS-8-Q
595304-005-00	T-EQ-10-Q	595303-005-00	T-CS-10-Q
595304-006-00	T-EQ-12-Q	595303-006-00	T-CS-12-Q
595304-007-00	T-EQ-14-Q	595303-007-00	T-CS-15-Q
595304-008-00	T-EQ-16-Q	595303-008-00	T-CS-18-Q
595304-009-00	T-EQ-18-Q	595303-009-00	T-CS-21-Q
595304-010-00	T-EQ-20-Q		
595304-011-00	T-EQ-22-Q		
Return Path Attenuators			
42 MHz Attenuators Part Number	Model Number	85 MHz Attenuators Part Number	Model Number
595305-001-00	T-RPA/42-2-Q	595305-010-00	T-RPA/85-2-Q
595305-002-00	T-RPA/42-4-Q	595305-011-00	T-RPA/85-4-Q
595305-003-00	T-RPA/42-6-Q	595305-012-00	T-RPA/85-6-Q
595305-004-00	T-RPA/42-8-Q	595305-013-00	T-RPA/85-8-Q
595305-005-00	T-RPA/42-10-Q	595305-014-00	T-RPA/85-10-Q
595305-006-00	T-RPA/42-12-Q	595305-015-00	T-RPA/85-12-Q
595305-007-00	T-RPA/42-14-Q	595305-016-00	T-RPA/85-14-Q
595305-008-00	T-RPA/42-16-Q	595305-017-00	T-RPA/85-16-Q
595305-009-00	T-RPA/42-18-Q	595305-018-00	T-RPA/85-18-Q

RELATED PRODUCTS

FFT*-*Q 1.2 GHz Equalizable Taps	RMT2120 1.2 GHz Equalizable Taps
12000-L 1.2 GHz Equalizable Taps	Installation Services

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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