

PCT-TPC-8xx

PRELIMINARY

Tap, Outdoor, Signal Level Conditioning, 1.2 GHz, 8-Way

Electrical Specifications

Parameter	PCT-TPC-8xx								
	11T	14	17	20	23	26	29	32	35
Typical Values / Guaranteed									
Insertion Loss (-dB)									
5 to 10 MHz	N/A	3.5 / 3.6	1.8 / 1.9	1.0 / 1.1	1.0 / 1.1	0.7 / 0.8	0.7 / 0.8	0.6 / 0.7	0.6 / 0.7
10 to 65 MHz	N/A	3.5 / 3.6	1.8 / 1.9	1.0 / 1.1	1.0 / 1.1	0.7 / 0.8	0.7 / 0.8	0.6 / 0.7	0.6 / 0.7
65 to 102 MHz	N/A	3.9 / 4.0	1.8 / 1.9	1.2 / 1.3	1.1 / 1.2	0.8 / 1.0	0.8 / 1.0	0.8 / 1.0	0.7 / 0.9
102 to 300 MHz	N/A	3.9 / 4.0	1.8 / 1.9	1.2 / 1.3	1.1 / 1.2	0.8 / 1.0	0.8 / 1.0	0.8 / 1.0	0.7 / 0.9
300 to 550 MHz	N/A	4.5 / 4.7	2.3 / 2.5	1.5 / 1.9	1.4 / 1.7	1.1 / 1.3	1.1 / 1.3	1.1 / 1.3	1.0 / 1.2
550 to 750 MHz	N/A	4.7 / 5.2	2.6 / 2.7	1.8 / 2.1	1.6 / 1.8	1.3 / 1.5	1.3 / 1.5	1.4 / 1.5	1.2 / 1.3
750 to 862 MHz	N/A	4.8 / 5.2	2.8 / 3.1	2.1 / 2.3	1.8 / 2.0	1.6 / 1.8	1.5 / 1.7	1.5 / 1.7	1.3 / 1.4
862 to 1000 MHz	N/A	4.9 / 5.3	3.1 / 3.3	2.3 / 2.6	1.9 / 2.1	1.7 / 1.9	1.6 / 1.8	1.6 / 1.8	1.4 / 1.5
1000 to 1218 MHz	N/A	5.3 / 5.8	3.3 / 3.6	2.5 / 3.0	2.1 / 2.5	1.9 / 2.3	1.8 / 2.2	1.8 / 2.2	1.6 / 2.0
Tap Loss (with 0 dB plugin) (-dB)									
5 to 10 MHz	11.5 / 12.0	14.5 / 15.0	17.5 / 18.0	20.5 / 21.0	23.5 / 24.0	26.5 / 27.0	29.5 / 30.0	32.5 / 33.0	35.5 / 36.0
10 to 65 MHz	11.5 / 12.0	14.5 / 15.0	17.5 / 18.0	20.5 / 21.0	23.5 / 24.0	26.5 / 27.0	29.5 / 30.0	32.5 / 33.0	35.5 / 36.0
65 to 860 MHz	12.3 / 12.8	15.3 / 16.5	18.3 / 19.0	21.0 / 22.0	23.8 / 24.5	26.8 / 28.0	29.8 / 31.0	32.5 / 34.0	35.5 / 36.5
860 to 1218 MHz	12.5 / 14.0	16.8 / 18.5	19.5 / 20.5	21.5 / 23.0	24.5 / 25.5	27.0 / 29.0	30.0 / 32.0	33.0 / 34.5	36.0 / 37.5
Isolation Out-Tap (dB)									
5 to 10 MHz	N/A	23 / 21	25 / 23	29 / 27	35 / 33	39 / 37	40 / 38	42 / 40	43 / 41
10 to 65 MHz	N/A	29 / 27	31 / 29	34 / 32	37 / 35	39 / 37	40 / 38	42 / 40	43 / 41
65 to 860 MHz	N/A	30 / 28	32 / 30	33 / 31	35 / 33	37 / 35	38 / 36	40 / 38	41 / 39
860 to 1218 MHz	N/A	28 / 26	28 / 26	30 / 27	31 / 29	32 / 30	34 / 32	34 / 32	36 / 34
Isolation Tap-Tap (dB)									
5 to 10 MHz	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20
10 to 65 MHz	28 / 25	28 / 25	28 / 25	28 / 25	28 / 25	28 / 25	28 / 25	28 / 25	28 / 25
65 to 860 MHz	26 / 23	26 / 23	26 / 23	26 / 23	26 / 23	26 / 23	26 / 23	26 / 23	26 / 23
860 to 1218 MHz	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20	24 / 20
Return Loss In-Out (dB)									
5 to 10 MHz	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16
10 to 47 MHz	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18
47 to 950 MHz	20 / 17	20 / 16	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17
950 to 1218 MHz	18 / 14	18 / 14	18 / 14	18 / 14	18 / 14	18 / 14	18 / 14	18 / 14	18 / 14
Return Loss Tap (dB)									
5 to 10 MHz	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16
10 to 47 MHz	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18	19 / 18
47 to 950 MHz	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17	20 / 17
950 to 1218 MHz	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16	18 / 16

General Specifications

Parameter	Specifications
Power Passing	In-Out: 12A 90V AC, except 11 dB
Operating Current (max)	15A
Nominal Impedance	75 Ohms
Waterproof Condition	15 psi
Surge Withstand	In-Out: Conforms to ANSI / SCTE 81 2012, IEEE C62.41 Cat. B3 Waveform Tap Ports: Conforms to ANSI / SCTE 81 2012, IEEE C62.41 Cat. A3 Waveform
Hum Modulation	-70 dB @ 7A / 65V AC
Connector Thread	5 / 8-24 UNEF-2B Female with red plastic cap
F Port	3 / 8-32 UNEF-2A Male waterproof rubber with red plastic cap, patented Digital Seizure Mechanism (DSM®)
Power Passing Bar	All dB available except 11 dB
RFI Shielding	-100 dB
Temperature	-40° C to +60° C

Ordering Information

Part Number	Description
PCT-TPC-8xx	Tap, Outdoor, Signal Level Conditioning on Tap Ports, 1.2 GHz, 8-Way
	(x = db: 11T, 14, 17, 20, 23, 26, 29, 32, 35)