

PCT-TPC-4xx

PRELIMINARY

Tap, Outdoor, Signal Level Conditioning, 1.2 GHz, 4-Way

Electrical Specifications

Parameter	PCT-TPC-4xx									
	8T	11	14	17	20	23	26	29	32	35
Typical / Guaranteed Values										
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	0.6 / 0.8	0.6 / 0.7	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	0.6 / 0.8	0.6 / 0.7	0.6 / 0.7	0.6 / 0.7
65 to 102 MHz	N/A	3.9 / 4.0	1.7 / 1.8	1.2 / 1.3	1.1 / 1.2	1.0 / 1.1	0.8 / 0.9	0.8 / 0.9	0.7 / 0.9	0.7 / 0.9
102 to 300 MHz	N/A	3.9 / 4.0	1.7 / 1.8	1.2 / 1.3	1.1 / 1.2	1.0 / 1.1	0.8 / 0.9	0.8 / 0.9	0.7 / 0.9	0.7 / 0.9
300 to 550 MHz	N/A	4.5 / 4.7	2.2 / 2.5	1.5 / 1.9	1.4 / 1.7	1.2 / 1.3	1.1 / 1.3	1.1 / 1.3	1.0 / 1.2	1.0 / 1.2
550 to 750 MHz	N/A	4.7 / 5.2	2.4 / 2.7	1.7 / 2.1	1.6 / 1.8	1.3 / 1.5	1.2 / 1.5	1.2 / 1.5	1.2 / 1.3	1.2 / 1.3
750 to 862 MHz	N/A	4.8 / 5.2	2.7 / 3.0	1.9 / 2.3	1.7 / 2.0	1.5 / 1.8	1.3 / 1.7	1.3 / 1.7	1.3 / 1.4	1.3 / 1.4
862 to 1000 MHz	N/A	4.9 / 5.3	3.1 / 3.5	2.0 / 2.4	1.8 / 2.1	1.6 / 1.9	1.5 / 1.8	1.5 / 1.8	1.4 / 1.5	1.4 / 1.5
1000 to 1218 MHz	N/A	5.3 / 5.5	3.5 / 3.9	2.3 / 2.8	2.1 / 2.5	1.9 / 2.3	1.8 / 2.3	1.8 / 2.2	1.6 / 2.0	1.6 / 2.0
Tap Loss (with 0 dB plugin)	(-dB)									
5 to 10 MHz	8.5 / 9.0	12.5 / 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	8.5 / 9.0	12.5 / 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	8.5 / 9.0	12.3 / 12.8	15.0 / 15.5	18.0 / 18.5	21.0 / 21.5	24.0 / 24.5	26.6 / 27.3	29.6 / 30.3	32.8 / 33.3	35.8 / 36.3
860 to 1218 MHz	9.0 / 10.0	12.5 / 13.5	15.3 / 16.0	18.3 / 19.0	21.3 / 22.0	24.3 / 25.0	27.0 / 28.0	30.0 / 31.0	33.0 / 34.0	36.0 / 37.0
Isolation Out-Tap	(dB)									
5 to 10 MHz	N/A	22 / 20	24 / 22	27 / 25	32 / 30	37 / 35	39 / 37	40 / 38	42 / 40	43 / 41
10 to 65 MHz	N/A	26 / 24	31 / 29	33 / 31	36 / 34	39 / 37	41 / 39	42 / 40	44 / 42	45 / 43
65 to 860 MHz	N/A	26 / 24	31 / 29	32 / 30	34 / 32	35 / 33	35 / 33	38 / 36	40 / 38	42 / 39
860 to 1218 MHz	N/A	25 / 23	25 / 23	26 / 24	29 / 27	30 / 28	30 / 28	34 / 32	35 / 33	37 / 35
Isolation Tap-Tap	(dB)									
5 to 10 MHz	24 / 20	22 / 20	22 / 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	28 / 25
65 to 860 MHz	26 / 23	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	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	18 / 16
10 to 47 MHz	19 / 18	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	20 / 17
950 to 1218 MHz	18 / 14	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	18 / 16
10 to 47 MHz	19 / 18	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	20 / 17
950 to 1218 MHz	18 / 16	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 8 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 Ports	3 / 8-32 UNEF-2A Male waterproof rubber with red plastic cap, patented Digital Seizure Mechanism (DSM®)
Power Passing Bar	All dB available except 8 dB
RFI Shielding	-100 dB
Temperature	-40° C to +60° C

Ordering Information

Part Number	Description
PCT-TPC-4xx	Tap, Outdoor, Signal Level Conditioning on Tap Ports, 1.2 GHz, 4-Way
	(x = db: 8T, 11, 14, 17, 20, 23, 26, 29, 32, 35)