

Electrical Specifications

RPT1000-E-G2 Series Philips® Compatible RPT1200-E-G2 Series

Model (RPT12XX)		04	08	11	14	17	20	23	26	29	32
Tap Loss	Freq (MHz)										
(dB)	5-1218	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0
Tap Loss Tolerance (+/- dB)	5-19	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
	20-899	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	900-1000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	1001-1218	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Insertion Loss Max (dB)	5	-	3.9	2.0	1.3	1.2	1.0	0.7	0.7	0.7	0.7
	10	-	3.6	1.8	1.2	1.1	0.9	0.6	0.6	0.6	0.6
	30	-	3.5	1.8	1.2	1.1	0.9	0.6	0.6	0.6	0.6
	50	-	3.5	1.8	1.2	1.1	0.9	0.7	0.7	0.7	0.7
	100	-	3.6	2.0	1.3	1.2	1.0	0.8	0.8	0.8	0.8
	330	-	3.9	2.2	1.4	1.4	1.2	1.0	1.0	1.0	1.0
	450	-	4.2	2.4	1.6	1.5	1.3	1.1	1.1	1.1	1.1
	600	-	4.2	2.4	1.8	1.5	1.4	1.2	1.2	1.2	1.2
	750	-	4.2	2.6	1.8	1.5	1.5	1.3	1.3	1.3	1.3
	860	-	4.3	2.7	2.0	1.6	1.6	1.4	1.4	1.4	1.4
	1000	-	4.3	3.0	2.3	1.6	1.6	1.6	1.6	1.6	1.6
1218	-	5.2	3.6	2.7	2.2	2.0	1.8	1.8	1.8	1.8	
Tap to Output Isolation Min (dB)	5-9	-	18	20	22	26	29	32	35	38	40
	10-749	-	21	24	26	30	33	36	38	40	42
	750-899	-	20	22	23	28	31	34	36	38	40
	900-1218	-	20	22	23	27	30	32	34	36	38
Tap to Tap Isolation Min (dB)	5-9	20	20	20	20	20	20	20	20	20	20
	10-250	25	25	25	25	25	25	25	25	25	25
	251-749	23	23	23	23	23	23	23	23	23	23
	750-1218	20	20	20	20	20	20	20	20	20	20
Input/Output Return Loss Min (dB)	5-9	18	18	18	18	18	18	18	18	18	18
	10-749	18	17	18	18	18	18	18	18	18	18
	750-999	17	16	17	17	17	17	17	17	17	17
	1000-1218	16	16	16	16	16	16	16	16	16	16
Tap Port Return Loss Min (dB)	5-9	18	17	18	18	18	18	18	18	18	18
	10-749	18	18	18	18	18	18	18	18	18	18
	750-999	17	17	17	17	17	17	17	17	17	17
	1000-1218	16	16	16	16	16	16	16	16	16	16
Hum Modulation @ 12 Amps Max (dB)	5-49	-	-64	-64	-70	-70	-70	-70	-70	-70	-70
	50-599	-	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600-749	-	-64	-64	-70	-70	-70	-70	-70	-70	-70
	750-1218	-	-60	-60	-70	-70	-70	-70	-70	-70	-70
RFI Min (dB)	5-1218	-105	-105	-105	-105	-105	-105	-105	-105	-105	-105

Electrical Specifications

RPT1000-E-G2 Series Philips® Compatible RPT1400-E-G2 Series

Model (RPT14XX)		08	11	14	17	20	23	26	29	32	35
Tap Loss	Freq (MHz)										
(dB)	5-1218	8.0	11.5	14.5	17.0	20.0	23.0	26.0	29.0	32.0	35.0
Tap Loss Tolerance (+/- dB)	5-19	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	20-899	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	900-1000	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	1001-1218	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
Insertion Loss Max (dB)	5	-	3.9	2.0	1.3	1.2	1.0	0.7	0.7	0.7	0.7
	10	-	3.6	1.8	1.2	1.1	0.9	0.6	0.6	0.6	0.6
	30	-	3.5	1.8	1.2	1.1	0.9	0.6	0.6	0.6	0.6
	50	-	3.5	1.8	1.2	1.1	0.9	0.7	0.7	0.7	0.7
	100	-	3.6	2.0	1.3	1.2	1.0	0.8	0.8	0.8	0.8
	330	-	3.9	2.2	1.6	1.4	1.2	1.0	1.0	1.0	1.0
	450	-	4.2	2.4	1.7	1.5	1.3	1.1	1.1	1.1	1.1
	600	-	4.4	2.6	1.9	1.5	1.4	1.2	1.2	1.2	1.2
	750	-	4.4	2.8	1.9	1.6	1.5	1.3	1.3	1.3	1.3
	860	-	4.4	3.0	2.1	1.8	1.6	1.4	1.4	1.4	1.4
	1000	-	4.5	3.1	2.4	2.0	1.7	1.5	1.5	1.5	1.5
1218	-	5.2	3.6	2.7	2.2	2.0	1.8	1.8	1.8	1.8	
Tap to Output Isolation Min (dB)	5-9	-	20	22	26	30	32	34	36	40	42
	10-749	-	23	27	30	34	36	38	40	42	44
	750-899	-	22	25	28	32	34	36	38	40	42
	900-1218	-	22	25	28	30	32	34	36	38	40
Tap to Tap Isolation Min (dB)	5-9	20	20	20	20	20	20	20	20	20	20
	10-250	25	25	25	25	25	25	25	25	25	25
	251-749	23	23	23	23	23	23	23	23	23	23
	750-1218	20	20	20	20	20	20	20	20	20	20
Input/Output Return Loss Min (dB)	5-9	17	18	18	18	18	18	18	18	18	18
	10-749	18	17	18	18	18	18	18	18	18	18
	750-999	17	17	17	17	17	17	17	17	17	17
	1000-1218	16	16	16	16	16	16	16	16	16	16
Tap Port Return Loss Min (dB)	5-9	18	18	17	18	18	18	18	18	18	18
	10-749	18	18	18	18	18	18	18	18	18	18
	750-999	17	17	17	17	17	17	17	17	17	17
	1000-1218	16	16	16	16	16	16	16	16	16	16
Hum Modulation @ 12 Amps Max (dB)	5-49	-	-64	-64	-70	-70	-70	-70	-70	-70	-70
	50-599	-	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600-749	-	-64	-64	-70	-70	-70	-70	-70	-70	-70
	750-1218	-	-60	-60	-70	-70	-70	-70	-70	-70	-70
RFI Min (dB)	5-1218	-105	-105	-105	-105	-105	-105	-105	-105	-105	-105






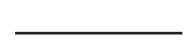
Electrical Specifications

RPT1000-E-G2 Series Philips® Compatible RPT1800-E-G2 Series

Model (RPT18XX)		12	15	18	21	24	27	30	33
Tap Loss	Freq (MHz)								
(dB)	5-1218	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0
Tap Loss Tolerance (+/- dB)	5-19	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0
	20-899	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0
	900-1000	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	1001-1218	3.0	3.2	3.0	3.0	3.0	3.0	3.0	3.0
Insertion Loss Max (dB)	5	-	3.9	2.0	1.3	1.1	0.8	0.6	0.6
	10	-	3.6	1.8	1.2	0.9	0.7	0.5	0.5
	30	-	3.5	1.8	1.2	0.9	0.7	0.5	0.5
	50	-	3.5	1.8	1.2	0.9	0.7	0.5	0.5
	100	-	3.6	2.0	1.3	1.1	0.8	0.6	0.6
	330	-	4.0	2.2	1.5	1.2	1.0	0.9	0.9
	450	-	4.2	2.4	1.7	1.3	1.2	0.9	0.9
	600	-	4.4	2.6	1.9	1.5	1.4	1.0	1.0
	750	-	4.5	2.8	1.9	1.6	1.4	1.2	1.2
	860	-	4.5	2.9	2.1	1.8	1.4	1.3	1.3
	1000	-	4.5	3.1	2.3	2.0	1.6	1.5	1.5
1218	-	5.2	3.6	2.8	2.2	2.0	1.9	1.9	
Tap to Output Isolation Min (dB)	5-9	-	23	25	28	30	34	36	38
	10-749	-	25	30	32	34	36	38	40
	750-899	-	25	27	29	32	34	36	38
	900-1218	-	23	26	28	29	30	32	34
Tap to Tap Isolation Min (dB)	5-9	20	20	20	20	20	20	20	20
	10-250	25	25	25	25	25	25	25	25
	251-749	23	23	23	23	23	23	23	23
	750-1218	20	20	20	20	20	20	20	20
Input/Output Return Loss Min (dB)	5-9	18	18	18	18	18	18	18	18
	10-749	17	17	17	17	17	17	17	17
	750-999	16	17	17	17	17	17	17	17
	1000-1218	16	16	16	16	16	16	16	16
Tap Port Return Loss Min (dB)	5-9	18	18	18	18	18	18	18	18
	10-749	17	17	17	17	17	17	17	17
	750-999	17	17	17	17	17	17	17	17
	1000-1218	16	16	16	16	16	16	16	16
Hum Modulation @ 12 Amps Max (dB)	5-49	-	-70	-70	-70	-70	-70	-70	-70
	50-599	-	-70	-70	-70	-70	-70	-70	-70
	600-749	-	-70	-70	-70	-70	-70	-70	-70
	750-1218	-	-70	-70	-70	-70	-70	-70	-70
RFI Min (dB)	5-1218	-105	-105	-105	-105	-105	-105	-105	-105

Retrofit Tap RPT1000-E-G2 Series Philips® Compatible

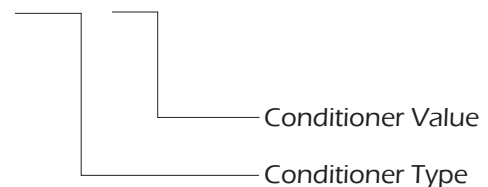
General	
Flatness (5-1000 MHz)	±0.35 dB (min)
RFI (5-1000 MHz)	-100 dB (min)
Surge Withstand	6 kV Combination Wave Surge per IEEE C62.41 Category B3 on all Ports
Current	12 Amps Continuous
Nominal Impedance	75 Ω
F-connector Type	ANSI/SCTE Compliant CamPort® F-connectors
Environmental	
Operating Temperature	-40 °C to 60 °C
Corrosion Resistance	Meets SCTE/ANSI Specification

Plug in Conditioner	(XXX)	Filter Shape	Conditioner Value (-XX)
Cable Equalizer	CEG		02, 04, 06, 08, 10, 12, 14 or 16 (dB)
Cable Simulator	CSG		03, 06, 09 or 12 (dB)
Return Path Attenuator	RAG		02, 04, 06, 08, 10, 12, 14, 16 or 18 (dB)
High Tap Filter	HTG		03, 06, 09, 12 or 15 (dB)
High Pass Filter	HP		52 or 54 (MHz)
Jumper**	JP		-

** Jumper (JP) is shipped with all E-Option taps unless requested. Patent no 6,570,465 B2

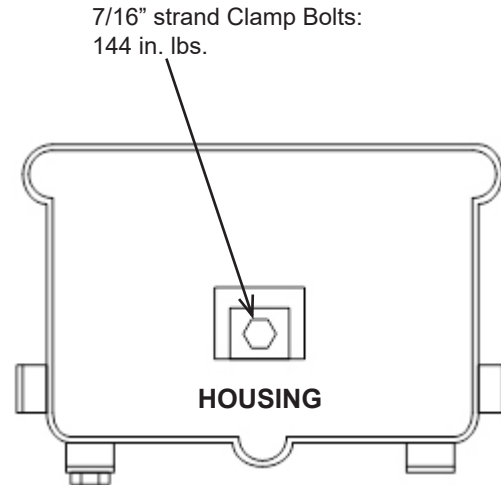
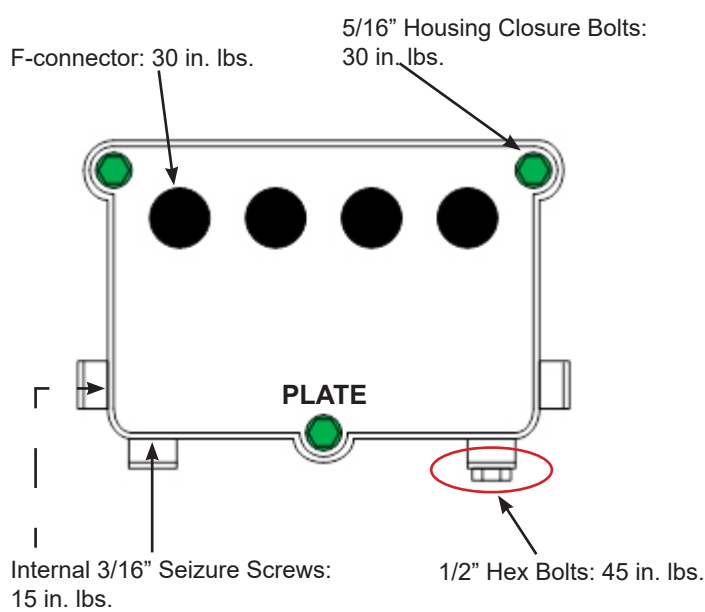


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Torque

RPT1000-E-G2 Series Philips® Compatible Specifications



Accessory Ordering Guide

RPT1200-E/P-G2	2-Way Philips® Retrofit Tap Plate 1218 MHz w/E-Option
RPT1400-E/P-G2	4-Way Philips® Retrofit Tap Plate 1218 MHz w/E-Option
RPT1800-E/P-G2	8-Way Philips® Retrofit Tap Plate 1218 MHz w/E-Option
RPT1200-M-E-G2	2-Way Philips® Retrofit Full Tap Plate 1218 MHz w/E-Option
RPT1400-M-E-G2	4-Way Philips® Retrofit Full Tap Plate 1218 MHz w/E-Option
RPT1800-M-E-G2	8-Way Philips® Retrofit Full Tap Plate 1218 MHz w/E-Option