

RRTW Series Multitaps with E-Options

Electrical Specifications

RRTW1200 Series

Model (RRTW1200)		04	08	11	14	17	20	23	26	29	32
Tap Loss	Freq (MHz)										
(dB)	5-1002	4	8	11	14	17	20	23	26	29	32
Tap Loss Tolerance Max (+/- dB)	5-19	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2
	20-899	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.5
	900-1002	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Insertion Loss Max (+/- dB)	5	-	3.6	2.0	1.3	1.2	0.9	0.8	0.8	0.8	0.8
	10	-	3.4	1.8	1.2	1.2	0.8	0.7	0.7	0.7	0.7
	30	-	3.4	1.9	1.2	1.2	1.0	0.8	0.8	0.8	0.8
	50	-	3.4	1.9	1.2	1.2	1.1	0.9	0.9	0.9	0.9
	100	-	3.5	2.1	1.3	1.3	1.2	1.0	1.0	1.0	1.0
	330	-	4.0	2.2	1.4	1.3	1.3	1.1	1.1	1.1	1.1
	450	-	4.3	2.5	1.6	1.4	1.3	1.2	1.2	1.2	1.2
	550	-	4.5	2.7	1.8	1.4	1.4	1.2	1.2	1.2	1.2
	600	-	4.8	2.8	2.1	1.6	1.4	1.4	1.4	1.4	1.4
	750	-	5.2	3.0	2.3	1.8	1.6	1.5	1.5	1.5	1.5
	860	-	5.3	3.3	2.5	2.0	1.8	1.7	1.7	1.7	1.7
1002	-	5.5	3.5	2.7	2.2	2.0	1.8	1.8	1.8	1.8	
Tap to Output Isolation Min (dB)	5-9	-	19	20	22	24	28	30	32	33	34
	10-749	-	21	23	23	30	33	36	38	40	42
	750-899	-	20	22	22	28	31	34	34	37	39
	900-1002	-	20	22	22	27	30	32	34	35	37
Tap to Tap Isolation Min (dB)	5-9	20	18	20	20	20	20	20	20	20	20
	10-749	23	22	23	23	23	23	23	23	23	23
	750-899	20	20	20	20	20	20	20	20	20	20
	900-1002	20	20	20	20	20	20	20	20	20	20
Input/Output Return Loss Min (dB)	5-10	17	17	18	18	18	18	18	18	18	18
	11-29	18	16	18	18	18	18	18	18	18	18
	30-749	18	16	18	18	18	18	18	18	18	18
	750-1002	17	15	17	16	17	17	17	17	17	17
Tap Port Return Loss Min (dB)	5-10	18	15	15	17	18	18	18	18	18	18
	11-29	18	17	18	18	18	18	18	18	18	18
	30-749	18	17	18	18	18	18	18	18	18	18
	750-1002	17	17	17	17	17	17	17	17	17	17
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
	750-1002	-	-60	-60	-64	-64	-64	-64	-64	-64	-64

Electrical Specifications RRTW1400 Series

Model (RRTW1400)		08	11	14	17	20	23	26	29	32	35
Tap Loss	Freq (MHz)										
(dB)	5-1002	7.5	11.5	14.5	17	20	23	26	29	32	35
Tap Loss Tolerance Max (+/- dB)	5-29	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	30-750	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	751-1002	1.5	1.5	1.5	1.8	1.5	1.5	1.5	1.5	1.8	1.8
Insertion Loss Max (+/- dB)	5	-	3.7	1.8	1.3	1.2	1.0	0.7	0.7	0.7	0.7
	10	-	3.6	1.6	1.2	1.1	0.8	0.6	0.6	0.6	0.6
	30	-	3.6	1.7	1.2	1.1	0.8	0.6	0.6	0.6	0.6
	50	-	3.6	1.8	1.2	1.1	0.9	0.6	0.6	0.6	0.6
	100	-	3.7	2.0	1.3	1.2	1.0	0.8	0.8	0.8	0.8
	330	-	4.1	2.2	1.6	1.3	1.1	1.0	1.0	1.0	1.0
	450	-	4.3	2.4	1.7	1.4	1.2	1.2	1.2	1.2	1.2
	550	-	4.6	2.6	1.8	1.4	1.2	1.2	1.2	1.2	1.2
	600	-	4.8	2.8	1.9	1.5	1.4	1.4	1.4	1.4	1.4
	750	-	5.0	3.0	2.0	1.6	1.5	1.5	1.5	1.5	1.5
	860	-	5.1	3.3	2.2	1.8	1.7	1.7	1.7	1.7	1.7
1002	-	5.2	3.6	2.5	1.9	1.8	1.8	1.8	1.8	1.8	
Tap to Output Isolation Min (dB)	5-9	-	20	20	20	25	30	32	34	36	38
	10-749	-	23	25	28	33	36	38	40	42	44
	750-899	-	22	25	28	31	34	36	38	40	42
	900-1002	-	22	25	27	30	32	34	36	38	40
Tap to Tap Isolation Min (dB)	5-9	20	20	20	20	20	20	20	20	20	20
	10-749	23	23	23	23	23	23	23	23	23	23
	750-899	20	20	20	20	20	20	20	20	20	20
	900-1002	20	20	20	20	20	20	20	20	20	20
Input/Output Return Loss Min (dB)	5 - 9	17	17	17	17	17	17	17	17	17	17
	10 - 29	18	17	18	18	18	18	18	18	18	18
	30 - 749	18	17	18	18	18	18	18	18	18	18
	750 - 1002	17	17	17	16	17	17	16	16	16	16
Tap Port Return Loss Min (dB)	5-10	17	17	17	17	17	17	17	17	17	17
	11-29	18	18	18	18	18	18	18	18	18	18
	30-749	18	18	18	18	18	18	18	18	18	18
	750-1002	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
	750-1002	-	-60	-60	-64	-64	-64	-64	-64	-64	-64


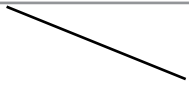
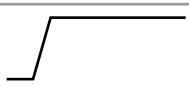
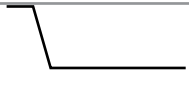
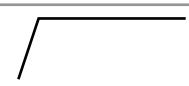
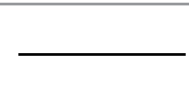
Electrical Specifications

RRTW1800 Series

Model (RRTW1800)		11	14	17	20	23	26	29	32
Tap Loss	Freq (MHz)								
(dB)	5-1002	11	14	17	20	23	26	29	32
Tap Loss Tolerance Max (+/- dB)	5-499	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
	500-599	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.8
	600-899	1.8	1.8	1.5	1.5	1.5	1.5	1.5	2.0
	900-1002	2.3	2.3	1.8	1.8	1.8	1.8	1.8	2.3
Insertion Loss Max (+/- dB)	5	-	3.7	1.8	1.2	1.0	0.9	0.7	0.7
	10	-	3.7	1.7	1.1	0.9	0.9	0.6	0.6
	50	-	3.7	1.9	1.2	0.9	0.9	0.7	0.7
	100	-	3.7	2	1.3	1.0	0.9	0.9	0.9
	300	-	4.0	2.1	1.4	1.1	1.0	0.9	0.9
	400	-	4.1	2.2	1.6	1.2	1.1	1.0	1.0
	500	-	4.3	2.3	1.7	1.5	1.3	1.1	1.1
	600	-	4.5	2.5	1.8	1.5	1.3	1.1	1.1
	700	-	4.8	3.0	2.0	1.5	1.3	1.3	1.3
	800	-	5.0	3.2	2.4	1.8	1.4	1.4	1.4
	900	-	5.2	3.4	2.7	2.0	1.6	1.6	1.6
1002	-	5.2	3.6	2.9	2.1	1.7	1.7	1.7	
Tap to Output Isolation Min (dB)	5-9	-	20	20	24	30	34	34	36
	10-749	-	25	23	31	34	36	38	40
	750-899	-	24	23	28	32	34	36	37
	900-1002	-	23	23	27	31	32	34	36
Tap to Tap Isolation Min (dB)	5-9	20	20	20	20	20	20	20	20
	10-749	23	23	23	23	23	23	23	23
	750-1002	20	20	20	20	20	20	20	20
Input/Output Return Loss Min (dB)	5-29	17	17	17	17	17	17	17	17
	30-599	18	18	18	18	18	18	18	18
	600-749	18	17	18	18	18	18	18	18
	750-1002	17	16	17	17	17	17	17	17
Tap Port Return Loss Min (dB)	5-29	17	17	17	17	17	17	17	17
	30-599	18	18	18	18	18	18	18	18
	600-749	18	18	18	18	18	18	18	18
	750-1002	16	16	16	16	16	16	16	16
Hum Modulation @ 12 Amps Max (dB)	5-49	-	-64	-64	-70	-70	-70	-70	-70
	50-599	-	-70	-70	-70	-70	-70	-70	-70
	600-749	-	-64	-64	-70	-70	-70	-70	-70
	750-1002	-	-60	-60	-70	-70	-70	-70	-70

General	
Flatness (5-1000 MHz)	±0.35 dB
RFI (5-1000 MHz)	-100 dB
Current	12 Amps Continuous

E-Option Plug-in Conditioner Ordering Matrix

Plug in Conditioner	(XX)	Filter Shape	Conditioner Value (-XX)
Cable Equalizer	CE		02, 04, 06, 08, 10, 12, 14 or 16 (dB) (Equalization at 860 MHz)
Cable Simulator	CS		03, 06, 09 or 12 (dB)
Return Path Attenuator	RA		02, 04, 06, 08, 10, 12, 14, 16 or 18 (dB)
High Tap Filter	HT		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

Related Documents	
Description	Document Number
E-Option Application Note	AN-1007

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