

Features and Benefits

ANTRONIX®

Retrofit Tap Plate RPT-Series Philips Compatible

Antronix now has a tap plate which will fit legacy Philips tap housings. The RPT Series Philips Retro-fit taps are designed to the same standards as the Antronix Milenium series. The faceplate meets or exceeds all SCTE standards for environmental surge and corrosion resistance. The main line ports are 6 kV combination wave protected, while all drop ports can withstand multiple 6 kV ring wave surges. Reliability is further enhanced with the use of Antronix's Eclipse Contact Technology (ECT) conical F-ports.

The RPT Series retrofit taps will activate existing Philips RF signal and power bypass switches. Tap values are easily identified through a combination color code and numeric label. RFI isolation remains high and capacitively coupled F-ports ensure superior hum modulation performance.

- **Designed to Fit Philips Brand Housings**
The design enables system operators to gain the Antronix advantage without re-splicing.
- **Rotational Seizure Posts**
A single tap housing functions in either aerial or pedestal configuration.
- **SCTE Compliant Brass F-ports with Eclipse Contact Technology (ECT)**
Provides over 400% more surface contact than conventional F-ports and increases reliability for digital and analog signals.
- **Four Stage Corrosion Protection Process**
A 360 aluminum alloy housing (most corrosive resistant alloy for die casting)
Housing is impregnated with a sealer to prevent porosity
Clear chromate coating applied inside and out
Double baked-on coating of polyurethane applied for superior protection
- **Heat-Treated Stainless Steel Hardware with Proprietary Plating**
Reduces galvanic reactions and provides superb corrosion protection.
- **Color Coded Multi-tap Values for Easy Identification**
Integrated drip wells, numbered ports, and strip gauge.
Ribbed main line entry ports for proper adhesion of heat shrink.
- **Capacitively Coupled F-ports**
Provides superior Hum-mod performance.
- **12 Amperes Current Passing**



Electrical Specifications RPT1200 Series

Model (RPT12XX)		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)	5-30	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
	30-900	1.5	2.0	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.5
	900-1002	2.0	2.5	2.0	2.2	2.2	2.0	2.0	2.0	2.0	2.0
Insertion Loss Max (+/- dB)	5	-	3.6	2.0	1.3	1.3	1.1	0.9	0.8	0.8	0.8
	10	-	3.3	1.8	1.2	1.2	1.0	0.8	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	-	3.5	1.9	1.2	1.2	1.0	0.9	0.9	0.9	0.9
	100	-	3.6	2.1	1.3	1.3	1.1	1.0	1.0	1.0	1.0
	330	-	3.9	2.2	1.4	1.3	1.2	1.1	1.1	1.1	1.1
	450	-	4.2	2.5	1.6	1.4	1.3	1.2	1.2	1.2	1.2
	550	-	4.4	2.7	1.7	1.4	1.4	1.2	1.2	1.2	1.2
	750	-	4.8	3.3	1.8	1.6	1.4	1.4	1.4	1.4	1.4
	860	-	4.9	3.8	2.2	1.9	1.6	1.5	1.5	1.5	1.5
1002	-	5.0	4.1	2.5	2.2	1.8	1.7	1.7	1.7	1.7	
Tap to Output Isolation Min (dB)	5-10	-	18	19	20	24	28	30	32	34	36
	10-750	-	21	23	24	30	33	36	38	40	42
	750-900	-	20	22	23	28	31	34	36	38	40
	900-1002	-	20	22	23	27	30	32	34	36	38
Tap to Tap Isolation Min (dB)	5-10	20	18	19	19	18	20	20	20	20	20
	10-750	23	23	23	23	23	23	23	23	23	23
	750-900	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	17	17	17	18	18	18	18	18
	10-30	17	17	17	17	18	18	18	18	18	18
	30-600	17	16	17	17	18	18	18	18	18	18
	600-1002	17	16	17	17	17	17	17	17	17	17
Tap Port Return Loss Min (dB)	5-10	17	16	16	16	16	17	17	17	17	17
	10-30	17	17	17	17	18	18	18	18	18	18
	30-750	17	17	17	17	18	18	18	18	18	18
	750-1002	17	16	17	17	17	17	17	17	17	17
Hum Modulation @ 10 Amps Max (dB)	5-50	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	50-600	-	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600-750	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	750-1002	-	-60	-60	-60	-60	-60	-60	-60	-60	-60

Electrical Specifications RPT1400 Series

Model (RPT14XX)		08	11	14	17	20	23	26	29	32	35
Tap Loss	Freq (MHz)										
(dB)	5-1002	8	11	14	17	20	23	26	29	32	35
Tap Loss Tolerance Max (+/- dB)	5-30	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	30-900	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	900-1002	1.5	2.5	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0
Insertion Loss Max (+/- dB)	5	-	3.9	2.0	1.3	1.3	1.1	0.9	0.9	0.8	0.8
	10	-	3.8	1.9	1.2	1.2	1.0	0.8	0.8	0.7	0.7
	30	-	3.8	1.5	1.2	1.2	1.0	0.8	0.8	0.8	0.8
	50	-	3.9	1.5	1.2	1.2	1.0	0.9	0.9	0.9	0.9
	100	-	4.0	1.8	1.3	1.2	1.1	1.0	1.0	1.0	1.0
	330	-	4.3	2.0	1.6	1.3	1.2	1.0	1.0	1.0	1.0
	450	-	4.3	2.2	1.7	1.4	1.3	1.1	1.1	1.1	1.1
	550	-	4.4	2.4	1.8	1.4	1.4	1.1	1.1	1.1	1.1
	750	-	4.9	3.2	2.0	1.6	1.5	1.2	1.2	1.2	1.2
	860	-	5.0	3.5	2.2	1.8	1.6	1.4	1.4	1.4	1.4
	1000	-	5.1	4.0	2.5	2.1	1.8	1.7	1.7	1.7	1.7
1002	-	5.2	3.7	3.3	2.2	1.7	1.7	1.7	1.7	1.7	
Tap to Output Isolation Min (dB)	5-10	-	20	20	20	25	30	32	34	36	38
	10-750	-	23	25	28	34	36	38	40	42	44
	750-900	-	22	25	28	32	34	36	38	40	42
	900-1002	-	22	25	28	30	32	34	36	38	40
Tap to Tap Isolation Min (dB)	5-10	20	20	20	20	20	20	20	20	20	20
	10-750	23	23	23	23	23	23	23	23	23	23
	750-900	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	17	18	18	18	18	18	18	18
	10-30	17	17	18	18	18	18	18	18	18	18
	30-600	17	17	18	18	18	18	18	18	18	18
	600-1002	16	16	17	17	17	17	17	17	17	17
Tap Port Return Loss Min (dB)	5-10	17	16	16	16	16	17	17	17	17	17
	10-30	17	18	18	18	18	18	18	18	18	18
	30-750	17	18	18	18	18	18	18	18	18	18
	750-1002	17	17	17	17	17	17	17	17	17	17
Hum Modulation @ 10 Amps Max (dB)	5-50	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	50-600	-	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600-750	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	750-1002	-	-60	-60	-60	-60	-60	-60	-60	-60	-60

Electrical Specifications

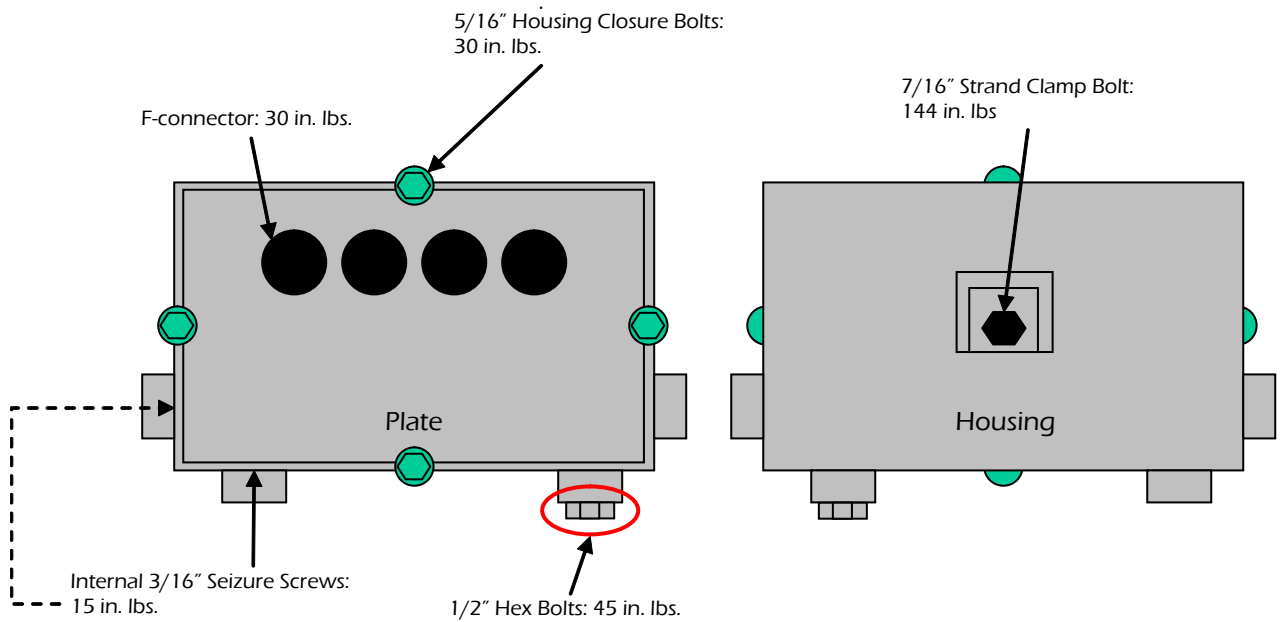
RPT1800 Series

Model (RPT18XX)		12	15	18	21	24	27	30	33	36	32
Tap Loss	Freq (MHz)										
(dB)	5-1002	12	15.5	18	21	24	27	30	33	36	32
Tap Loss Tolerance Max (+/- dB)	5-30	1.8	2.0	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	30-900	1.9	2.0	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.5
	900-1002	2.3	2.8	1.9	2.0	2.2	2.2	2.2	2.2	2.3	2.0
Insertion Loss Max (+/- dB)	5	-	3.8	2.0	1.5	1.3	0.9	0.9	0.9	0.9	0.8
	10	-	3.8	1.8	1.3	1.1	0.8	0.8	0.8	0.8	0.7
	30	-	3.5	1.8	1.3	1.0	0.8	0.8	0.8	0.8	0.8
	50	-	3.5	1.9	1.3	1.0	0.8	0.8	0.8	0.8	0.9
	100	-	4.0	2.1	1.4	1.0	0.9	0.9	0.9	0.9	1.0
	330	-	4.2	2.7	1.6	1.1	1.0	1.0	0.9	0.9	1.0
	450	-	4.4	3.0	1.7	1.2	1.2	1.0	0.9	0.9	1.1
	550	-	4.5	3.5	1.8	1.4	1.4	1.0	1.0	1.0	1.1
	750	-	4.9	3.9	2.2	1.6	1.6	1.4	1.4	1.4	1.2
	860	-	5.0	4.1	2.4	1.8	1.8	1.6	1.6	1.6	1.4
	1000	-	5.1	4.4	2.7	2.2	2.2	1.8	1.8	1.8	1.7
1002	-	5.2	3.7	3.3	2.2	1.7	1.7	1.7	1.7	1.7	
Tap to Output Isolation Min (dB)	5-10	-	20	23	24	30	34	34	36	38	38
	10-750	-	25	30	31	34	36	38	40	42	44
	750-900	-	24	27	29	32	34	36	37	40	42
	900-1002	-	23	26	27	31	32	34	36	39	40
Tap to Tap Isolation Min (dB)	5-10	20	20	20	20	20	20	20	20	20	20
	10-750	23	23	23	23	23	23	23	23	23	23
	750-900	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)	5-30	17	17	17	17	17	17	17	17	17	18
	30-600	17	17	18	18	18	18	18	18	18	18
	600-750	17	17	18	18	18	18	18	18	18	18
	750-1002	17	16	17	17	17	17	17	17	17	17
Tap Port Return Loss Min (dB)	5-30	17	17	17	17	17	17	17	17	17	17
	30-600	17	17	17	17	17	17	17	17	17	18
	600-750	17	17	17	17	17	17	17	17	17	18
	750-1002	17	17	17	17	17	17	17	17	17	17
Hum Modulation @ 10 Amps Max (dB)	5-50	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	50-600	-	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600-750	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	750-1002	-	-60	-60	-60	-60	-60	-60	-60	-60	-60

Retrofit Tap Plate RPT-Series Philips Compatible

General	
Flatness (5-1000 MHz)	±0.35 dB (min)
RFI (5-1000 MHz)	-100 dB (min)
Current	12 Amps Continuous
Nominal Impedance	75 Ω
F-connector Type	ANSI/SCTE Compliant Eclipse Contact Technology (ECT)
Environmental	
Operating Temperature	-40 °C to 60 °C
Corrosion Resistance	Meets SCTE/ANSI Specification

Torque Specifications



Ordering Guide

RPT1200/P	2-Way Philips Retrofit Faceplate, 5-1000 MHz
RPT1400/P	4-Way Philips Retrofit Faceplate, 5-1000 MHz
RPT1800/P	8-Way Philips Retrofit Faceplate, 5-1000 MHz