

## Retrofit Tap Plate

### RPT-Series Philips Compatible



### Overview

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 CamPort® 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.

### Features & Benefits

- **Designed to fit Philips brand housings**  
The design enables system operator to gain the Antronix advantage without re-splicing
- **Rotational seizure posts**  
A single tap housing functions as either aerial or pedestal configuration
- **SCTE Compliant Brass F-ports with CamPort®**  
Patented auto-seizing F-port features a "Cam Activated Mechanism" to provide full contact pressure (>2,000 grams) on the center conductor for maximum reliability.
- **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 multitap 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**

### Ordering Information

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

**Electrical Specifications (RPT1200 – Series)**

	Model (RPT12xx)	04	08	11	14	17	20	23	26	29	32
<b>Tap Loss</b>											
	<b>FREQ (MHz)</b>										
(dB)	5 - 1000	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0
<b>Tap Loss Tolerance</b>											
Maximum	5 - 30	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
(+/-dB)	30 - 900	1.5	2.0	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.5
	900 - 1000	2.0	2.5	2.0	2.2	2.2	2.0	2.0	2.0	2.0	2.0
<b>Insertion Loss</b>											
Maximum	5	-	3.6	2.0	1.3	1.3	1.1	0.9	0.8	0.8	0.8
(dB)	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
	1000	-	5.0	4.1	2.5	2.2	1.8	1.7	1.7	1.7	1.7
<b>Tap to Output Isolation</b>											
Minimum	5 - 10	-	18	19	20	24	28	30	32	34	36
(dB)	10 - 750	-	21	23	24	30	33	36	38	40	42
	750 - 900	-	20	22	23	28	31	34	36	38	40
	900 - 1000	-	20	22	23	27	30	32	34	36	38
<b>Tap to Tap Isolation</b>											
Minimum	5 - 10	20	18	19	19	18	20	20	20	20	20
(dB)	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 - 1000	20	20	20	20	20	20	20	20	20	20
<b>Input/Output Return Loss</b>											
Minimum	5 - 10	17	17	17	17	17	18	18	18	18	18
(dB)	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 - 1000	17	16	17	17	17	17	17	17	17	17
<b>Tap Port Return Loss</b>											
Minimum	5 - 10	17	16	16	16	16	17	17	17	17	17
(dB)	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 - 1000	17	16	17	17	17	17	17	17	17	17
<b>Hum Modulation @ 10 Amps</b>											
Maximum	5 - 50	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
(dB)	50 - 600	-	-70	-70	-70	-70	-70	-70	-70	-70	-70
	600 - 750	-	-64	-64	-64	-64	-64	-64	-64	-64	-64
	750 - 1000	-	-60	-60	-60	-60	-60	-60	-60	-60	-60

Specifications subject to change without notice

**Electrical Specifications (RPT1400 – Series)**

Model (RPT14xx)		08	11	14	17	20	23	26	29	32	35
<b>Tap Loss</b>											
(dB)	Freq (MHz)										
	5 - 1000	8.0	11.5	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
<b>Tap Loss Tolerance</b>											
(+/- 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 - 1000	1.5	2.5	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0
<b>Insertion Loss</b>											
Maximum											
(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
<b>Tap to Output Isolation</b>											
Minimum											
(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 - 1000	-	22	25	28	30	32	34	36	38	40
<b>Tap to Tap Isolation</b>											
Minimum											
(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 - 1000	20	20	20	20	20	20	20	20	20	20
<b>Input/Output Return Loss</b>											
Minimum											
(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 - 1000	16	16	17	17	17	17	17	17	17	17
<b>Tap Port Return Loss</b>											
Minimum											
(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 - 1000	17	17	17	17	17	17	17	17	17	17
<b>Hum Modulation @ 10 Amps</b>											
Maximum											
(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 - 1000	-	-60	-60	-60	-60	-60	-60	-60	-60	-60

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**Electrical Specifications (RPT1800 – Series)**

Model (RPT18xx)		12	15	18	21	24	27	30	33	36
<b>Tap Loss</b>	<b>Freq (MHz)</b>									
	5 - 1000	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0	36.0

<b>Tap Loss Tolerance</b>										
(+/- dB)	5 - 30	1.8	2.0	1.5	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
	900 - 1000	2.3	2.8	1.9	2.0	2.2	2.2	2.2	2.2	2.3

<b>Insertion Loss</b>										
Maximum	5	-	3.8	2.0	1.5	1.3	0.9	0.9	0.9	0.9
(dB)	10	-	3.8	1.8	1.3	1.1	0.8	0.8	0.8	0.8
	30	-	3.5	1.8	1.3	1.0	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
	100	-	4.0	2.1	1.4	1.0	0.9	0.9	0.9	0.9
	330	-	4.2	2.7	1.6	1.1	1.0	1.0	0.9	0.9
	450	-	4.4	3.0	1.7	1.2	1.2	1.0	0.9	0.9
	550	-	4.5	3.5	1.8	1.4	1.4	1.0	1.0	1.0
	750	-	4.9	3.9	2.2	1.6	1.6	1.4	1.4	1.4
	860	-	5.0	4.1	2.4	1.8	1.8	1.6	1.6	1.6
	1000	-	5.1	4.4	2.7	2.2	2.2	1.8	1.8	1.8

<b>Tap to Output Isolation</b>										
Minimum	5 - 10	-	20	23	24	30	34	34	36	38
(dB)	10 - 750	-	25	30	31	34	36	38	40	42
	750 - 900	-	24	27	29	32	34	36	37	40
	900 - 1000	-	23	26	27	31	32	34	36	39

<b>Tap to Tap Isolation</b>										
Minimum	5 - 10	20	20	20	20	20	20	20	20	20
(dB)	10 - 750	23	23	23	23	23	23	23	23	23
	750 - 900	20	20	20	20	20	20	20	20	20
	900 - 1000	20	20	20	20	20	20	20	20	20

<b>Input/Output Return Loss</b>										
Minimum	5 - 30	17	17	17	17	17	17	17	17	17
(dB)	30 - 600	17	17	18	18	18	18	18	18	18
	600 - 750	17	17	18	18	18	18	18	18	18
	750 - 1000	17	16	17	17	17	17	17	17	17

<b>Tap Return Loss</b>										
Minimum	5 - 30	17	17	17	17	17	17	17	17	17
(dB)	30 - 600	17	17	17	17	17	17	17	17	17
	600 - 750	17	17	17	17	17	17	17	17	17
	750 - 1000	17	17	17	17	17	17	17	17	17

<b>Hum Modulation @ 10 Amps</b>										
Maximum	5 - 50	-	-64	-64	-64	-64	-64	-64	-64	-64
(dB)	50 - 600	-	-70	-70	-70	-70	-70	-70	-70	-70
	600 - 750	-	-64	-64	-64	-64	-64	-64	-64	-64
	750 - 1000	-	-60	-60	-60	-60	-60	-60	-60	-60

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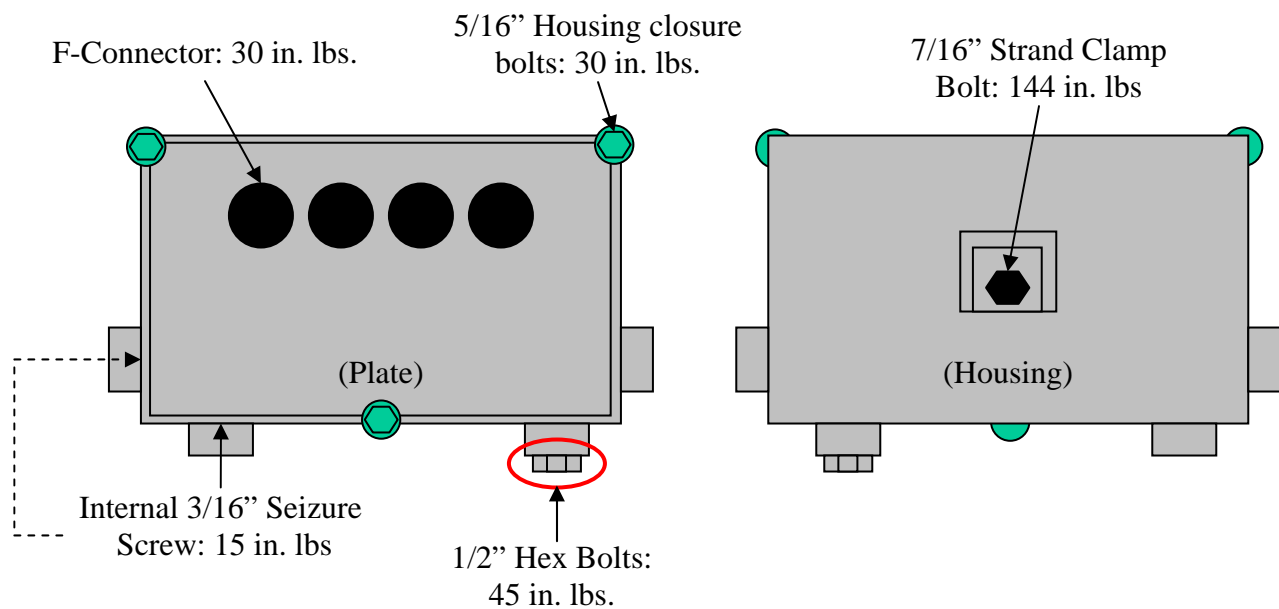
**■ ■ ■ General Specifications**

<b>Flatness (5 – 1000 MHz)</b>	±0.35 dB (min)
<b>RFI (5 – 1000 MHz)</b>	-100 dB (min)
<b>Current</b>	12 Amps Continuous
<b>Nominal Impedance</b>	75Ω
<b>F-Connector Type</b>	ANSI/SCTE Compliant CamPort <sup>®</sup> F-ports

**■ ■ ■ Environmental Specifications**

<b>Operating Temperature</b>	-40 °C to 60 °C
<b>Corrosion Resistance</b>	Meets ANSI/SCTE Specification

**■ ■ ■ Torque Specifications**



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