

Get **MORE** from your **NETWORK**.



## XPTF

UltraBand™ Extracting Tap

The XPTF is a patented center-conducting power extracting tap with a passband of 5 to 2750 MHz, the highest available passband today.

The XPTF features two- four- or eight-way configurations. The XPTF has an additional feature of power extracting and drop distribution for cable telephony applications.

The performance of the XPTF is designed to meet or exceed the performance of power extracting taps offered today and conforms to FCC and SCTE specifications.

The upstream attenuator within each UltraBand Series Tap allows for the reduction of system ingress to ensure the best upstream performance possible.

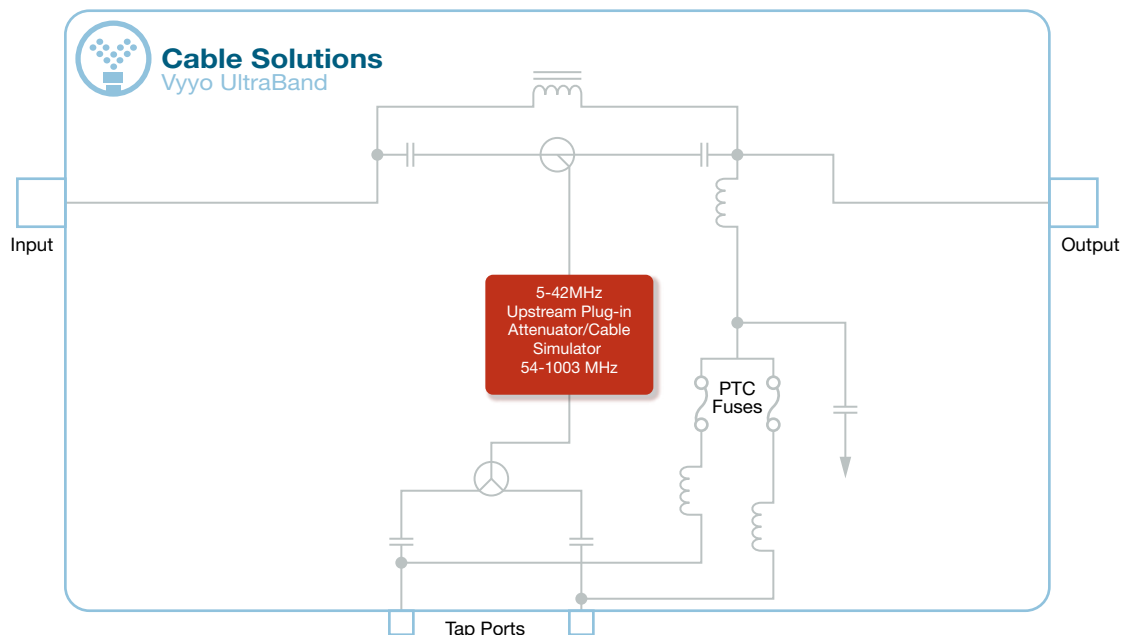
The UltraBand Series center conducting power extracting taps includes the following configurations:

- XPTF2 – two-way tap with 8 values between 4-26dB
- XPTF4 – four-way tap with 7 values between 8-26dB
- XPTF8 – eight-way tap with 7 values between 11-29dB



### KEY FEATURES

- ☑ 2750MHz bandwidth.
- ☑ Plug-in module allows design and field flexibility.
- ☑ Upstream plug-in attenuator allows the reduction of system ingress noise.
- ☑ Cable simulator enables changing the tap port downstream tilt, 54 - 1003MHz.
- ☑ Designed with low insertion loss up to 2750MHz.
- ☑ Make Before Break mechanism enables AC and RF continuity to 2750 MHz when faceplate is removed.
- ☑ The use of a proprietary screwless seizure mechanism reduces the likelihood of Common Path Distortion (CPD).
- ☑ An advanced F-Port design, specified to 3 GHz.
- ☑ 1 KV surge suppression capacitor on each F-Port.
- ☑ 12Amp power passing capability.
- ☑ Excellent RF characteristics, smoothly integrating to all legacy cable networks.
- ☑ Interfaces with all standard network devices.



**XPTF Specifications\***

Insertion Loss [dB] – Input to Output											
Model	Nominal Tap Value	5 MHz	50 MHz	450 MHz	750 MHz	870 MHz	1003 MHz	1300 MHz	1950 MHz	2250 MHz	2500 MHz
XPTF2-4	4.5	ST**	ST	ST	ST	ST	ST	ST	ST	ST	ST
XPTF2-8	8.0	3.5	3.2	4.0	4.4	4.7	5.0	4.6	4.3	4.5	4.5
XPTF2-11	10.0	2.0	1.5	2.0	2.5	3.0	3.6	3.3	2.4	2.3	2.4
XPTF2-14	14.5	1.2	0.9	1.2	1.6	2.0	2.5	3.3	2.3	2.5	2.5
XPTF2-17	17.0	1.0	0.8	1.2	1.6	2.0	2.2	1.9	2.3	2.3	1.6
XPTF2-20	19.5	0.6	0.5	1.0	1.2	1.7	2.0	2.0	1.3	1.8	2.1
XPTF2-23	23.0	0.6	0.6	1.0	1.0	1.5	2.0	2.3	1.4	1.7	2.1
XPTF2-26	26.5	0.5	0.4	0.8	1.1	1.5	2.0	2.2	1.4	1.7	2.1
XPTF4-8	8.0	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST
XPTF4-11	12.0	4.0	3.1	4.0	4.5	4.9	5.2	4.7	4.4	4.7	4.4
XPTF4-14	15.0	2.0	1.5	2.1	2.9	3.3	3.9	3.3	2.3	2.3	2.5
XPTF4-17	16.0	1.7	1.3	1.6	2.4	2.7	3.5	3.4	2.3	2.3	2.5
XPTF4-20	21.0	1.1	1.0	1.1	1.7	1.8	2.4	2.3	1.6	1.7	2.3
XPTF4-23	24.0	0.7	0.6	1.0	1.4	1.6	2.3	1.6	1.5	1.6	2.2
XPTF4-26	26.0	0.2	0.4	1.0	1.1	1.5	2.3	1.6	1.5	1.6	2.2
XPTF8-11	12.0	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST
XPTF8-14	15.5	4.5	3.5	4.3	5.0	5.0	5.5	5.6	4.6	4.6	4.6
XPTF8-17	18.0	2.4	2.0	2.4	3.0	3.4	4.1	3.6	2.4	2.3	2.6
XPTF8-20	20.0	1.7	1.4	1.8	2.6	3.2	3.8	3.6	2.1	2.3	2.4
XPTF8-23	22.0	1.2	1.0	1.4	1.8	2.2	2.7	3.1	1.8	2.3	2.5
XPTF8-26	25.0	1.0	0.7	1.2	1.7	2.2	2.7	2.4	1.8	2.1	2.1
XPTF8-29	28.0	1.0	0.7	1.2	1.6	2.0	2.7	2.4	1.8	2.1	2.1

Isolation [dB] - Tap to Out								
Model	5-10 MHz	11-50 MHz	51-600 MHz	601-750 MHz	751-1003 MHz	1300-1600 MHz	1601-1950 MHz	2250-2500 MHz
XPTF2-4	ST	ST	ST	ST	ST	ST	ST	ST
XPTF2-8	19	23	23	22	21	21	21	22
XPTF2-11	22	25	25	24	22	21	21	21
XPTF2-14	26	27	24	24	22	21	26	23
XPTF2-17	31	32	28	28	26	27	28	26
XPTF2-20	32	32	29	28	25	32	29	28
XPTF2-23	32	32	31	31	32	34	32	30
XPTF2-26	35	35	37	37	32	32	34	34
XPTF4-8	ST	ST	ST	ST	ST	ST	ST	ST
XPTF4-11	22	25	27	28	26	26	26	26
XPTF4-14	26	26	27	25	26	26	29	26
XPTF4-17	28	28	27	27	27	26	29	25
XPTF4-20	28	35	35	35	30	30	30	27
XPTF4-23	35	37	35	34	30	32	34	33
XPTF4-26	35	37	37	37	35	34	34	34
XPTF8-11	ST	ST	ST	ST	ST	ST	ST	ST
XPTF8-14	27	30	30	30	28	29	31	29
XPTF8-17	30	32	32	32	29	28	29	29
XPTF8-20	36	34	34	33	29	28	31	30
XPTF8-23	29	32	32	31	28	28	29	29
XPTF8-26	37	37	37	34	30	30	32	29
XPTF8-29	40	42	37	36	34	37	37	37

\*All specifications are typical unless otherwise noted.

\*In the interest of product improvement specifications are subject to change.

\*\*ST = Self Terminated. The output port is terminated inside the tap.



### Additional Specifications

Tap Tolerance <sup>1</sup>			
	5-1003MHz	1300-1950MHz	2250-2500MHz
2 Way Tap	±2.0dB	±2.5dB	±2.5dB
4 Way Tap	±2.0dB	±2.5dB	±2.5dB
8 Way Tap	±2.2dB	±2.5dB	±2.5dB

Input/Output Return Loss	
Frequency	
5-1003MHz	-16dB
1300-1950MHz	-13dB
2250-2500MHz	-12dB

Tap to Tap Isolation	
Frequency	
5-10MHz	23dB
11-50MHz	25dB
51-870MHz	22dB
871-1003MHz	20dB
1300-1600MHz	12dB
1601-1950MHz	12dB
2250-2500MHz	11dB

Additional Specifications		
Hum Modulation at 10A @ 25°C	Frequencies 5-10MHz	-60dB Minimum
	Frequencies 11-650MHz	-65dB Minimum
	Frequencies 651-1003MHz	-60dB Minimum
	Frequencies 1300-2750MHz	-60dB Minimum
Plug-In Upstream Attenuator (5-42MHz)	0-18dB in 2dB Steps	
Plug-In Downstream Cable Simulator (54-1003 MHz)	0-12dB in 3dB Steps	
Power Passing - Maximum	12A	
RFI	-90dB Minimum	
Surge Resistance	IEEE Category B1 C62.41-1991 on Main Ports	
	IEEE Category A1 C62.41-1991 on Tap Ports	
Current Limiting at Tap Port	Each port: 350mA at +60°C, 850mA at -40°C	
RF/AC Bypass with Contact Resistance	10mOhms Max.	
Operating Temperature	-40° - +140° F	
Dimensions	5.8" L x 3.8" H x 5.5" W	
Weight	2.2 lbs.	

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<sup>1</sup>Tolerance may vary according to tap value

