



## XFFT UltraBand™ Tap

The XFFT is a patented, power passing tap with a passband of 5 to 2750 MHz, the highest available passband today. The XFFT performs as a tap for the RF signals along the feeder. All XFFTs are capable of AC power passing from the input to the output on the feeder cable.

Vyvo's UltraBand™ series of taps is offered in two, four and eight port configurations with excellent performance and specifications. The performance of the UltraBand series tap meets or exceeds the performance of taps in the market today and complies with all FCC and SCTE specifications. All typical tap values are supported.

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

Each UltraBand Tap has a make-before-break (MBB) capability for the entire RF (5-2750MHz) passband and AC.

All XFFT devices support the existing legacy frequency range and Vyvo's UltraBand frequency band:

1. CATV Band: 5MHz–1003MHz
2. Vyvo's UltraBand: 1300MHz–2750MHz

The UltraBand Series XFFTs taps include the following:

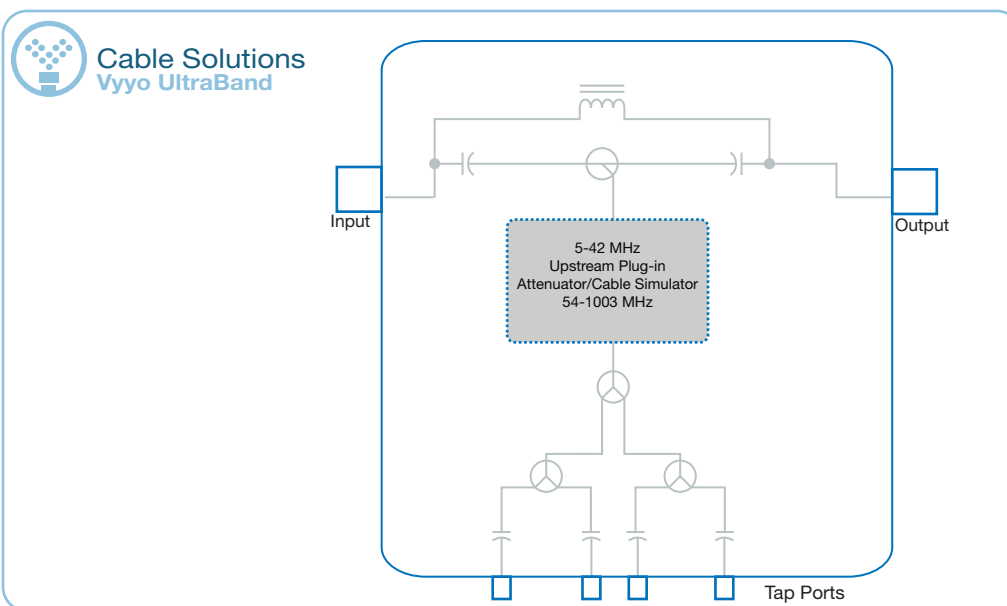
- XFFT2 – two way tap with 8 values between 4-26dB
- XFFT4 – four way tap with 7 values between 8-26dB
- XFFT8 – eight way tap with 7 values between 11-29dB

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



### KEY FEATURES

- ▣ 2750MHz bandwidth.
- ▣ Upstream attenuators allows for the reduction of system ingress.
- ▣ Plug-in module enables design and field flexibility.
- ▣ Make Before Break mechanism enables AC and RF continuity to 2750MHz when the faceplate is removed.
- ▣ Cable simulator allows for changing drop tilt.
- ▣ Interchangeable with legacy taps with no impact on network design or performance.
- ▣ 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.
- ▣ 6KV surge protection improves network reliability.
- ▣ 12A power passing.



**XFFT Specifications\***

<b>Insertion Loss [dB] – Input to Output</b>											
Model	Nominal Tap Value	5 MHz	50 MHz	450 MHz	750 MHz	870 MHz	1003 MHz	1300 MHz	1950 MHz	2250 MHz	2500 MHz
XFFT2-4	4.5	-	-	-	-	-	-	-	-	-	-
XFFT2-8	8.0	3.2	3.2	3.8	4.3	4.6	4.9	4.2	4.2	4.2	4.7
XFFT2-11	11.5	1.7	1.6	2.0	2.7	3.0	3.7	2.5	2.0	2.3	2.2
XFFT2-14	14.0	0.8	0.7	1.1	1.6	2.0	2.5	2.6	2.0	2.2	2.2
XFFT2-17	17.0	0.8	0.7	1.1	1.6	1.9	2.3	1.7	1.4	1.6	1.9
XFFT2-20	20.0	0.4	0.4	0.8	1.3	1.5	2.0	1.7	1.5	1.6	1.8
XFFT2-23	23.0	0.4	0.4	0.8	1.2	1.4	2.0	1.7	1.4	1.6	1.8
XFFT2-26	26.0	0.4	0.4	0.8	1.2	1.4	2.0	1.6	1.4	1.5	1.8
XFFT4-8	8.0	-	-	-	-	-	-	-	-	-	-
XFFT4-11	11.5	3.4	3.3	3.9	4.3	4.7	4.9	4.6	4.2	4.2	4.4
XFFT4-14	14.5	1.8	1.6	2.0	2.6	3.0	3.5	2.6	2.2	2.2	2.1
XFFT4-17	17.0	1.0	0.9	1.4	1.9	2.3	2.9	2.5	2.2	2.2	2.3
XFFT4-20	21.0	0.8	0.7	1.1	1.6	1.8	2.3	1.8	1.3	1.6	1.9
XFFT4-23	24.0	0.8	0.4	0.8	1.3	1.5	2.0	1.5	1.4	1.5	1.9
XFFT4-26	26.0	0.4	0.4	0.8	1.2	1.4	1.9	1.6	1.4	1.6	1.9
XFFT8-11	12.0	-	-	-	-	-	-	-	-	-	-
XFFT8-14	15.5	3.3	3.2	3.8	4.3	4.7	5.1	4.1	4.3	4.2	4.5
XFFT8-17	18.0	1.7	1.5	2.0	2.6	3.0	3.7	2.7	2.1	2.3	2.2
XFFT8-20	20.0	1.3	1.1	1.6	2.0	2.4	3.0	2.6	2.1	2.3	2.2
XFFT8-23	23.0	0.9	0.8	1.2	1.6	1.8	2.4	2.6	2.2	2.3	2.1
XFFT8-26	25.0	0.8	0.7	1.1	1.5	1.8	2.3	1.7	1.5	1.6	1.9
XFFT8-29	28.0	0.8	0.7	1.1	1.5	1.8	2.3	1.7	1.4	1.6	1.9

<b>Isolation [dB] – Tap to Out</b>								
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
XFFT2-4	-	-	-	-	-	-	-	-
XFFT2-8	22	29	27	24	24	31	26	25
XFFT2-11	24	29	29	30	26	22	23	29
XFFT2-14	27	28	27	27	25	22	23	28
XFFT2-17	33	37	32	31	30	33	30	26
XFFT2-20	39	43	35	35	32	32	31	27
XFFT2-23	41	46	35	34	34	33	33	32
XFFT2-26	44	49	38	37	35	37	35	34
XFFT4-8	-	-	-	-	-	-	-	-
XFFT4-11	26	33	30	30	29	35	29	29
XFFT4-14	28	32	34	34	32	26	26	29
XFFT4-17	32	36	32	31	33	28	28	33
XFFT4-20	36	40	36	35	36	36	35	33
XFFT4-23	42	46	36	37	33	39	35	35
XFFT4-26	44	48	37	36	33	36	38	36
XFFT8-11	-	-	-	-	-	-	-	-
XFFT8-14	30	36	34	34	34	34	33	35
XFFT8-17	31	36	35	37	34	29	32	36
XFFT8-20	35	40	38	37	41	29	32	36
XFFT8-23	32	33	33	34	33	31	34	37
XFFT8-26	40	47	43	47	38	38	36	36
XFFT8-29	44	50	43	43	38	41	41	36

\*All specifications are typical unless otherwise noted.

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



**Additional Specifications\***

<b>Tap Tolerance<sup>1</sup></b>				
	5-750MHz	751-1003MHz	1300-1950MHz	2250-2500MHz
2 Way Tap	±1.5dB	±2.0dB	±2.0dB	±2.5dB
4 Way Tap	±1.5dB	±2.0dB	±2.5dB	±2.5dB
8 Way Tap	±1.5dB	±2.5dB	±2.5dB	±2.5dB

<b>Input/Output Return Loss</b>	
Frequency	
5-1003MHz	-16dB Typical
1300-1950MHz	-14dB Typical
2250-2500MHz	-13dB Typical

<b>Tap to Tap Isolation</b>	
Frequency	
5-10MHz	20dB
11-50MHz	24dB
51-870MHz	22dB
871-1003MHz	20dB
1300-1600MHz	14dB
1601-1950MHz	13dB
2250-2500MHz	12dB

<b>Additional</b>		
Power Passing - Maximum	12Amp	
Hum Modulation at 10A @ 25°C	Frequencies 5-10MHz	-60dB minimum
	Frequencies 11-750MHz	-65dB minimum
	Frequencies 751-1003MHz	-60dB minimum
	Frequencies 1300-2500MHz	-60dB minimum
Plug-In Upstream Attenuator (5-42MHz)	0-18dB in 2 dB Steps	
Plug-In Downstream Cable Simulator (54-1003MHz)	0-12dB in 3dB Steps	
RFI	-90dB Minimum	
Surge Resistance	IEEE Category B3 C62.41-1991 - 6 KV combination wave - in/out ports	
	IEEE Category A3 C62.41-1991 - 6 KV ring wave - tap ports	
RF/AC Bypass with Contact Resistance	10mOhms Maximum	
Operating Temperature	-40°- +140° F	
Dimensions	6.1" L x 3.1" H x 6.0" W	
Weight	1.7 lbs	

\*All specifications are typical unless otherwise noted.

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

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

