

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



XSP UltraBand™ Passives

The XSP is a high performance coupler / splitter family that passes up to 2750 MHz. The performance of the UltraBand series of couplers and splitters meets or exceeds the performance of couplers or splitters in the market today. All typical coupler / splitter values are supported.

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

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

XSP Family

The XSP achieves 5–1003 MHz and 1300–2750MHz bandwidth using a patented design. All of the XSP perform power passing from any port to any port (Refer to tables for detailed values.)

XSP 4

- The XSP-4 has two identical outputs.

XSP 8

- The XSP-8 has two outputs:
 - The high output has -2dB Insertion Loss.
 - The low output has -8dB Insertion Loss

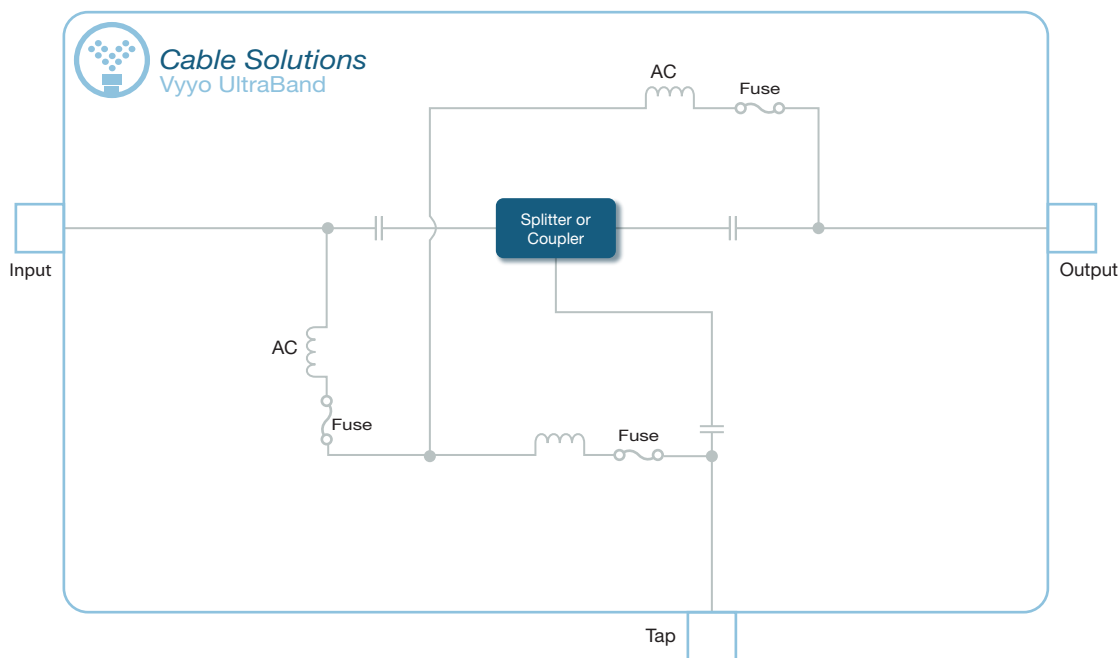
XSP 636

- XSP 636 has three outputs:
 - The high output has -4dB Insertion Loss.
 - The two low outputs have -8dB Insertion Loss



KEY FEATURES

- ☑ PassBand up to 2750MHz.
- ☑ Designed with low insertion loss.
- ☑ 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.
- ☑ 6KV surge protection improves network reliability.
- ☑ Power directors for network powering flexibility.
- ☑ US Patent Number: 7,138,886 B2



XSP 12

- The XSP 12 has two outputs:
 - The high output has -1.3dB Insertion Loss.
 - The low output has -12dB Insertion Loss.

XSP 16

- The XSP 16 has two outputs:
 - The high output has -1.2dB Insertion Loss.
 - The low output has -16dB Insertion Loss.

XSP Specifications*

Insertion Loss (dB) – Input to Output / Tap											
Model	Output	5 MHz	50 MHz	450 MHz	750 MHz	870 MHz	1003 MHz	1300 MHz	1950 MHz	2250 MHz	2500 MHz
XSP 4	2 Outputs	3.8	3.5	3.9	4.4	4.6	5.0	4.2	4.2	4.3	4.4
XSP 8	High Output	1.8	1.5	1.9	2.4	2.7	3.2	1.8	1.9	2.0	2.3
	Low Output		8.5	8.3	8.4	8.4	8.8	8.0	9.0	8.9	8.9
XSP 636	High Output	4.2	3.5	4.0	4.3	4.5	5.0	4.0	4.2	4.4	4.4
	Low Outputs	7.3	6.8	7.4	8.0	8.3	9.0	7.6	7.5	7.6	7.8
XSP 12	High Output	1.3	1.0	1.3	1.8	2.1	2.4	1.2	1.1	1.4	1.5
	Low Output	11.6	11.2	11.3	11.4	11.6	12.0	13.5	12.9	13.1	13.1
XSP 16	High Output	1.0	0.7	1.0	1.4	1.8	2.0	1.4	1.1	1.2	1.4
	Low Output	16.8	16.0	15.9	15.7	15.8	16.0	16.7	15.9	16.0	16.1

Isolation (dB)									
Model	5-10 MHz	11-50 MHz	450 MHz	750 MHz	870 MHz	1003 MHz	1300-1950 MHz	2250-2500 MHz	
XSP 4	28	30	25	26	35	33	22	23	
XSP 8	21	30	29	33	24	23	17	19	
XSP 636	22	33	26	28	29	30	19	24	
XSP 12	20	25	33	27	26	26	29	28	
XSP 16	27	35	35	31	28	26	24	34	

Additional Specifications		
Input/Output Return Loss	5-1003MHz	-16dB
	1300-1950MHz	-15dB
	2250-2500MHz	-12dB
Power Passing		15A Maximum
Hum Modulation at 15A at 25°C	5-10MHz	-60dB Minimum
	11-650MHz	-65dB Minimum
	651-1003MHz	-60dB Minimum
	1300-2500MHz	-60dB Minimum
RFI		90dB Minimum
Operating Temperature		-40 - +140° F
Dimensions		6.2" L x 3.1" H x 6.0" W
Weight		1.94 lbs

Ordering Information	
Model	Ordering Part Number
XSP 4	XSSP-0004
XSP 8	XSSP-0006
XSP 636	XSSP-3636
XSP 12	XSSP-0012
XSP 16	XSSP-0016

*All values are typical unless otherwise noted.
*In the interest of product improvement specifications are subject to change.

