



Indoor RF passives

Value Line - Splitters and Taps **VSSxx - VTSxx**

The Value Line product series includes splitters and taps which have a frequency range up to 1006 MHz. The products are designed for fast and easy installation and represents excellent performance at very cost effective levels.

V-Line features

- Frequency range up to 1006 MHz
- Electromagnetic compatibility exceeding class A
- Cost efficient design ensures fast and easy installation
- Zinc die cast housing and fully soldered back ensure optimal electrical performance.

One of Teleste's unique and award winning superior performance passives designed for easy installation and reliability.

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INDOOR RF PASSIVES / V-LINE




ELECTRICAL SPECIFICATIONS - VSSxx SPLITTERS					
	VSS2 2-WAY SPLITTER	VSS3 3-WAY SPLITTER	VSS3U 3-WAY UNBALANCED	VSS4 4-WAY SPLITTER	
INSERTION LOSS (dB, Max.) - IN TO OUT					
Frequency (MHz)	QA / Typ.	QA / Typ.	QA	Typ.	QA / Typ.
5 - 15	3.6/3.5	5.8/5.6	3.8/7.0	3.5/6.9	7.1/6.9
15 - 47	3.7/3.5	5.8/5.7	3.8/7.0	3.5/6.9	6.9/6.9
47 - 450	3.8/3.7	5.8/5.7	3.8/7.1	3.7/7.2	7.1/7.2
450 - 750	4.0/3.8	6.5/6.1	4.0/7.6	3.8/7.5	7.6/7.5
750 - 1006	4.2/3.9	7.0/6.5	4.2/8.2	3.9/7.8	8.2/7.8
ISOLATION (dB, Min.) - ALL PORTS					
5 - 15	20/25	20/25	20/25		20/25
15 - 47	22/28	22/28	22/28		22/28
47 - 450	23/28	23/28	23/28		23/28
450 - 750	22/25	22/25	22/25		22/25
750 - 1006	20/22	20/22	20/22		20/22
RETURN LOSS (dB, Min.) - INPUT					
5 - 15	20/22	18/22	18/22		18/22
15 - 47	22/25	20/25	20/25		20/25
47 - 450	22/25	20/25	20/25		20/25
450 - 750	22/25	20/25	20/25		20/25
750 - 1006	20/22	20/22	20/22		20/22
RETURN LOSS (dB, Min.) - OUTPUT					
5 - 15	20/22	18/22	18/22		18/22
15 - 47	22/25	20/25	20/25		20/25
47 - 450	22/25	20/25	20/25		20/25
450 - 750	22/25	20/25	20/25		20/25
750 - 1006	20/22	20/22	20/22		20/22
ELECTRICAL SPECIFICATIONS - VTS1xx - 1-WAY TAPS					
	VTS106			VTS109	
TAP LOSS					
5 - 1006	QA	Typ.	QA	Typ.	
	6.5 ±1.5	6.5 ±1.0	9.0 ±1.5	9.0 ±1.0	
INSERTION LOSS (dB, Max.) - IN TO OUT					
5 - 50		2.5/2.2			1.6/1.5
50 - 500		2.2/1.9			1.6/1.5
500 - 750		2.5/2.2			1.8/1.6
750 - 1006		2.7/2.4			2.2/1.9
ISOLATION (dB, Min.) - ALL PORTS					
5 - 50		23/25			25/27
50 - 500		23/24			25/25
500 - 750		20/23			22/24
750 - 1006		20/22			22/24
RETURN LOSS (dB, Min.) - IN & OUT					
5 - 50		16/18			18/20
50 - 500		18/20			18/20
500 - 750		18/20			18/20
750 - 1006		18/18			18/20
RETURN LOSS (dB, Min.) - TAP					
5 - 50		16/18			18/20
50 - 500		18/20			18/20
500 - 750		18/20			18/20
750 - 1006		18/18			18/20

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ELECTRICAL SPECIFICATIONS - VTS2xx - 2-WAY TAPS		
VTS208		
TAP LOSS		
5 - 1006	QA	Typ. 7.5 ±1.5 8.0 ±1.5
INSERTION LOSS (dB, Max.) - IN TO OUT		
5 - 50	QA / Typ.	
50 - 500	3.8/3.5	
500 - 750	3.8/3.5	
750 - 1006	3.8/3.7	
ISOLATION (dB, Min.) - OUT TO TAP		
5 - 50	25/25	
50 - 500	24/28	
500 - 750	23/26	
750 - 1006	22/24	
ISOLATION (dB, Min.) - TAP TO TAP		
5 - 50	20/22	
50 - 500	22/25	
500 - 750	23/26	
750 - 1006	22/23	
RETURN LOSS (dB, Min.) - INPUT		
5 - 50	18/20	
50 - 500	20/22	
500 - 750	20/22	
750 - 1006	20/22	
RETURN LOSS (dB, Min.) - OUTPUT		
5 - 50	18/20	
50 - 500	20/22	
500 - 750	20/22	
750 - 1006	20/22	
MECHANICAL SPECIFICATIONS		
Housing	Material	Zinc die cast
Back Cover	Construction	Machine soldered
	Material	Tin plated steel lid
MECHANICAL SPECIFICATIONS		
Nominal impedance	75 Ohm	
Frequency range	5 - 1006 MHz	
Temperature range	0 - 40 °C	
Screening (dB, Min.)⁽¹⁾		
5 - 300	≥ 85	
300 - 470	≥ 80	
470 - 1006	≥ 75	
Surge immunity	1 * 1kV (1,2/500µS) @ all ports	
Dimensions	VSS2, VTS106: 53 x 45 x 17 mm. VSS3, VSS3v, VTS208: 74 x 45 x 17 mm VSS4: 76 x 45 x 17 mm	
Weight	VSS2, VTS106: 0,030 kg. VSS3, VSS3v, VTS208: 0,044 kg. VSS4: 0,046 kg	
NOTES		
(1) Transfer impedance method according to IEC 60728-2 (5-30 MHz). Absorption clamp method according to IEC-60728-2 § 4.4 (30-1000 MHz)		

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ORDERING INFORMATION	
VSS2	V-Line 2-way Splitter, 1 GHz
VSS3	V-Line 3-way Splitter, 1 GHz
VSS3U	V-Line 3-way Splitter, unbalanced, 1 GHz
VSS4	V-Line 4-way Splitter, 1 GHz
VTS106	V-Line 1-way Tap 6 dB, 1 GHz
VTS109	V-Line 1-way Tap 9 dB, 1 GHz
VTS208	V-Line 2-way Tap 8 dB, 1 GHz

PICTURE GALLERY		
VSS2 2-WAY SPLITTER	VTS106 1-WAY TAP	VTS208 2-WAY TAP
		

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