

Indoor RF passives

Value Line - Splitters and Taps

3VSSxx - 3VTSxx

The new Value Line product series includes splitters and taps with have a frequency range up to 1218 MHz. The products are designed for fast and easy installation and represents excellent performance at very cost effective levels.

3V-Line features



- Frequency range up to 1218 MHz, Docsis 3.1 compliant
- Electromagnetic compatibility exceeds 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.

TELESTE

INDOOR RF PASSIVES / 3V-LINE

ELECTRICAL SPECIFICATIONS - 3VTS2xx 1-WAY TAPS					
	3VTS208 8 dB	3VTS210 10 dB	3VTS212 12 dB	3VTS216 16 dB	3VTS220 20 dB
TAP LOSS (dB) - IN TO TAP					
Frequency (MHz)	QA / Typ.	QA / Typ.	QA / Typ.	QA / Typ.	QA / Typ.
5 - 1218	6.5 ± 1.5 / ± 1.0	8.0 ± 1.5 / ± 1.0	10.0 ± 1.5 / ± 1.0	12.0 ± 1.5 / ± 1.0	16.0 ± 1.5 / ± 1.0
INSERTION LOSS (dB, Max.) - IN TO OUT					
5 - 50	3.8 / 7.0	2.5 / 2.2	1.8 / 1.6	1.0 / 0.8	1.0 / 0.8
50 - 500	3.8 / 7.0	2.2 / 1.9	1.8 / 1.6	1.0 / 0.8	1.0 / 0.8
500 - 750	3.8 / 7.1	2.5 / 2.2	2.0 / 1.8	1.2 / 1.0	1.2 / 1.0
750 - 1006	4.0 / 8.0	3.0 / 2.5	2.2 / 1.9	1.6 / 1.2	1.6 / 1.2
1006 - 1218	4.3 / 8.5	3.2 / 2.7	2.5 / 2.0	2.0 / 1.5	2.0 / 1.5
ISOLATION (dB, Min.) - OUT TO TAP					
5 - 50	23 / 25	25 / 27	25 / 27	28 / 32	32 / 36
50 - 500	23 / 25	25 / 27	25 / 27	28 / 32	32 / 36
500 - 750	20 / 23	22 / 24	23 / 25	25 / 30	28 / 32
750 - 1006	20 / 23	22 / 24	23 / 25	25 / 30	28 / 32
1006 - 1218	18 / 20	20 / 22	20 / 22	23 / 25	25 / 28
ISOLATION (dB, Min.) - TAP TO TAP					
5 - 50	20	20	20	20	20
50 - 500	24	24	24	24	24
500 - 750	22	22	22	22	22
750 - 1006	20	20	20	20	20
1006 - 1218	18	18	18	18	18
RETURN LOSS (dB, Min.) - IN & OUT					
5 - 50	18 / 20 ⁽¹⁾	16	18 / 20 ⁽¹⁾	18 / 20 ⁽¹⁾	18 / 20
50 - 500	22 / 24 ⁽¹⁾	18	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾
500 - 750	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾
750 - 1006	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾
1006 - 1218	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾
RETURN LOSS (dB, Min.) - IN TO TAP					
5 - 50	18 / 20 ⁽¹⁾	18 / 20 ⁽¹⁾	18 / 20 ⁽¹⁾	18 / 20 ⁽¹⁾	18 / 20 ⁽¹⁾
50 - 500	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾
500 - 750	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾
750 - 1006	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾	22 / 24 ⁽¹⁾
1006 - 1218	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾	16 / 16 ⁽²⁾
PICTURE GALLERY					
3VSS2 2-WAY SPLITTER		3VTS106 1-WAY TAP		3VTS208 2-WAY TAP	
					

INDOOR RF PASSIVES / 3V-LINE

MECHANICAL SPECIFICATIONS		
Housing	Material	Zinc die-cast with Nickel plating
Back Cover	Construction	Solderback
	Material	Tin plated steel lid
MECHANICAL SPECIFICATIONS		
Nominal Impedance	75 Ohm	
Frequency Range (MHz)	5 - 1218 MHz	
Operating Temperature Range	0 - 40 °C	
Electromagnetic Compatibility (dB, Min.) ⁽³⁾		
Class A acc. to IEC-60728-2		
5 - 300	85	
300 - 470	80	
470 - 950	75	
950 - 1218	55	
Surge Immunity Test ⁽⁴⁾	1 * 1kV (1,2/500µS) @ all ports	
Dimensions	3VSS2, 3VTS1xx: 38,10 x 20,50 mm 3VSS3, 3VSS3U, 3VSS4, 3VTS2xx: 63,5 x 22 mm	
Weight	3VSS2, 3VTS1xx: 0,033 kg 3VSS3, 3VSS3U, 3VTS2xx: 0,049 kg 3VSS4: 0,0535 kg	
NOTES		
(1) At F≥40 Mhz, -1.5 dB/octave, with 16 dB min.		
(2) Degrading to 14.5dB @1218MHz		
(3) According to IEC 60728-2 2010 (new 2012), EMC		
(4) 1kV, 1,2/50 µs surge voltage according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor for each port		
ACCESSORY		
		
ORDERING INFORMATION		
3VSS2	Value-Line 2-way splitter, 1.2GHz	
3VSS3	Value-Line 3-way splitter, 1.2GHz	
3VSS3U	Value-Line 3-way splitter, unbalanced, 1.2GHz	
3VSS4	Value-Line 4-way splitter, 1.2GHz	
3VTS106	Value-Line 1-way tap 6dB, 1.2 GHz	
3VTS108	Value-Line 1-way tap 8dB, 1.2 GHz	
3VTS110	Value-Line 1-way tap 10dB, 1.2 GHz	
3VTS112	Value-Line 1-way tap 12dB, 1.2 GHz	
3VTS116	Value-Line 1-way tap 16dB, 1.2 GHz	
3VTS120	Value-Line 1-way tap 20dB, 1.2 GHz	
3VTS208	Value-Line 2-way tap 8dB, 1.2 GHz	
3VTS210	Value-Line 2-way tap 10dB, 1.2 GHz	
3VTS212	Value-Line 2-way tap 12dB, 1.2 GHz	
3VTS216	Value-Line 2-way tap 16dB, 1.2 GHz	
3VTS220	Value-Line 2-way tap 20dB, 1.2 GHz	
VPC	Value-Line Plastic cover	

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TELESTE CORPORATION

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PRODUCT SPECIFICATIONS 3VALUE LINE_20210608

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