



PRODUCT FAMILY	DESCRIPTION
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<b>INDOOR RF PASSIVES</b>	<b>3D-LINE 16-WAY TAPS VERTICAL</b>
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	FEATURES
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- >> DOCSIS®3.1 compliant with frequency range up to 1218 MHz
- >> Electromagnetic compatibility exceeding Class A
- >> Very good intermodulation performance
- >> Superior housing design ensures fast and easy installation
- >> Optional BarrIER® technology for ingress/egress protection

## SPECIFICATIONS

	ELECTRICAL SPECIFICATIONS - 3D-LINE 16-WAY TAPS VERTICAL				
	14 dB	17 dB	21 dB	24 dB	27 dB
	3DTV16-14T	3DTV16-17T	3DTV16-21T	3DTV16-24T	3DTV16-27T

### INSERTION LOSS (dB, Max.) - IN TO TAP

Frequency (MHz)	14 dB	17 dB	21 dB	24 dB	27 dB
5 - 10	14.3	17.0	21.0	24.0	27.0
10 - 65	14.3	17.0	21.0	24.0	27.0
65 - 470	15.0	17.5	21.5	24.5	27.5
470 - 862	15.5	18.0	22.0	25.0	28.0
862 - 1006	16.0	18.5	22.5	25.5	28.5
1006 - 1218	16.5	19.0	23.0	26.0	29.0

### RETURN LOSS (dB, Min.) - ALL PORTS

Frequency (MHz)	14 dB	17 dB	21 dB	24 dB	27 dB
5 - 10	18.0	18.0	20.0	20.0	20.0
10 - 1018	20.0 <sup>(1)</sup>	20.0 <sup>(1)</sup>	22.0 <sup>(1)</sup>	22.0 <sup>(1)</sup>	22.0 <sup>(1)</sup>

### ISOLATION (dB, Min.) - TAP TO TAP

Frequency (MHz)	14 dB	17 dB	21 dB	24 dB	27 dB
5 - 10	28.0	28.0	32.0	35.0	38.0
10 - 65	32.0	32.0	38.0	38.0	38.0
65 - 470	30.0	30.0	34.0	35.0	35.0
470 - 862	26.0	26.0	28.0	28.0	28.0
862 - 1006	24.0	24.0	26.0	26.0	26.0
1006 - 1218	22.0	22.0	24.0	24.0	24.0

Teleste reserves the rights to alter specifications, features, manufacturing release dates and even the general availability of the product at any time.

**GENERAL SPECIFICATIONS**

Nominal impedance	75 Ohm
Frequency range	5-1218 MHz
Operating temperature range	-25 C° to +70 C°
Electromagnetic comp. <sup>(2)</sup> (dB, Min.)	
5-300	85.0
300-470	80.0
470-950	75.0
950-1200	55.0
Surge immunity <sup>(3)</sup> Each port (Min.)	1 kV
Intermodulation <sup>(4)</sup> (2f1, f1+f2, 2f2) (dBc,Min.)	-122.0 <sup>(a)</sup> -115.0 <sup>(b)</sup>
Dimensions (L x W x H)	215 x 50 x 35 mm
Weight	0.370 Kg

**” PURE-FERRITE DESIGN...**  
 Our Inter Modulation (IM) performance is reached with the “pure-ferrite” design. In practice it means less components and higher Mean-Time-Between-Failures (MTBF). Benefits are not limited to more robust quality because the pure-ferrite approach offers improved RF performance like better flatness as well.

**NOTES:**

- (1) At F≥40 MHz -1.5 dB per octave, with 16 dB min.
- (2) Exceeding Class A, according to IEC 60728-2 2010 (new 2012), EMC
- (3) 1 kV, 1,2/50 μs Surge voltage according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor of each port
- (4) Two carriers (60 & 65 MHz), applied to each output port, @120dBμV
- (a) No surge
- (b) Measured after 10 pulses 25VDC (1,2/500μS) have been applied to each port

**ADDITIONNAL NOTES:**

- (1) CableLabs is owner of the trademark DOCSIS®

**MECHANICAL SPECIFICATIONS (1/2)**

Housing	Material	Zinc die cast, NiSn plating
Back Cover	Construction	Tongue and Groove
	Material	Zinc die cast, NiSN plating
Connectors	Material	Zinc die cast
	Port spacing	22 mm
	Protection cap	Yes
	Physical dimensions	ANSI/SCTE 01.2006 IEC 61169-24
	Rotational Torque	≥10 Nm

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**MECHANICAL SPECIFICATIONS (2/2)**

F-Spring	Material	Phosphor Bronze
	Plating	Silver
	Test pin acceptance	0.51 mm - 1.3 mm
	Insertion & Withdrawal force	Withdrawal $\geq$ 0.30N Insertion $\leq$ 25N
Grounding block	Yes	

**ORDERING INFORMATION**

<b>3DTV16-xxT</b>	16-way tap xxdB, vertical, 5-1218 MHz, terminated
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