TMT-1400-A
12 way Tilted Multitap

- **Frequency range 12-1400 MHz**
- **Tilted outputs compensate for coaxial drop cable loss**
- **Combines optimal flatness to the cable with equal return path attenuation**
- **No passive intermodulation**
- **Microstrip coupling for high port to port isolation**
- **Port spacing 22 mm with DC blocked**
- **Brass connectors with tin nickel plating**
- **EMC Class A**

Overview

The TMT-1400-A has been developed based on microstrip technology. This type of multitap combines flat frequency responses at the subscriber's wall outlet with equal return path attenuation at each port.

The typical frequency characteristic of the TMT-1400-A, IE: the higher the frequency the lower the tap loss, is the opposite of that of the coaxial drop cable. Therefore this 1.4 GHz tilted multitap compensates for the coaxial drop cable losses, resulting in a very good flatness (in combination with an untilted distribution amplifier). Due to the innovative design of this product utilising microstrip couplers there is no passive intermodulation.

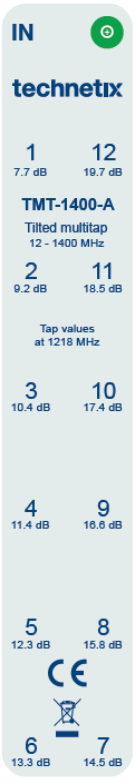
The return path attenuation of the TMT-1400-A offers equal values for all ports. This is very important as conventional multitaps have different losses so return path levels differ depending on tap value.

The TMT-1400-A has a cast aluminium housing with a special passivation layer and high quality paint coating to protect against corrosion. The backplate is also made of cast aluminium and is sealed to protect against moisture ingress.

The F connectors are made of brass - to prevent cold flow - with a tin nickel plating to prevent CPD and are spaced 22 mm apart for optimum usability.

The TMT-1400-A can be mounted with front or down facing ports to give the most flexible installation.

This latest A version of the product has a new design of inner spring and insert to make installation quicker and easier. The insertion forces are lower but the retention forces higher for long term connection reliability. The A version can easily be identified in the cabinet by looking for the green dot on the product label.



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Multitap

TMT-1400-A

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Specifications

	MHz	Tap 1	Tap 2	Tap 3	Tap 4	Tap 5	Tap 6	Tap 7	Tap 8	Tap 9	Tap 10	Tap 11	Tap 12
Insertion loss (dB, typ)	12	22.5	22.5	22.5	22.5	22.6	22.6	22.8	22.8	22.9	23.6	23.6	23.8
	85	22.5	22.5	22.5	22.5	22.6	23.0	23.3	23.3	23.3	23.9	23.9	24.0
(±1.0 dB tap loss tolerance)	200	19.5	20.0	20.5	21.2	21.2	22.4	22.6	22.6	22.6	23.9	23.9	23.9
	470	14.0	14.7	15.4	16.5	17.0	18.4	18.8	18.9	19.4	20.0	20.5	20.7
	1006	7.9	9.2	10.5	11.7	12.6	14.1	14.6	15.6	16.5	17.5	18.2	19.4
	1218	7.7	9.2	10.4	11.4	12.3	13.3	14.5	15.8	16.6	17.4	18.5	19.7
	1400	8.6	10.4	11.7	12.0	12.9	13.3	15.1	16.4	17.0	17.5	18.5	20.0

		MHz	Min
Frequency Range		12 - 1400	
Return loss (dB)1	All Ports	12 - 1006	20.0
		1006 - 1400	12.0
Isolation (dB)2	Tap to Tap	12 - 300	40.0
		300 - 470	35.0
		470 - 1218	30.0
		1218 - 1400	25.0
Screening Efficiency (dB)3		12 - 300	85.0
		300 - 470	80.0
		470 - 950	75.0
		950 - 1400	55.0
AC power blocking (Veff, min)	All ports	350	
Surge class conformance	All ports	1kV / 12Ω	
Construction Materials	Housing	Painted chromatic conversion coated cast aluminium	
	Inner spring	Tin nickel plated beryllium copper	
Impedance (Ohms, typ)		75Ω	
Dimensions (mm)	L x H x D	75 x 195 x 45	
IP class	54		
Equipment Approval	CE		

Remarks

1	-1.5 dB/oct, F >40 MHz
2	-1.5 dB/oct, F >300 MHz
3	Tested according to EN 50083-2 2012
4	IEC 61000-4-5: 2007 level 2

Ordering information

Item Name	Article number
TMT-1400-A	19011527

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