

HT 1-way taps



- **Designed for panel mounting in headend applications**
- **Low loss and high return loss performance**
- **Exceeds EN Class A screening requirements**
- **CPD Safe™ - NiSn plated, zinc alloy casing and NiSn plated, machined brass input connector with NiSn plated F-inner spring**



Overview

The HT-xx series of high quality 1-way taps has been developed specifically for panel mounting in headend applications, providing a versatile solution for supporting many different headend solutions. The series consists of 8dB and 20dB low cost, wideband taps with a connector spacing suitable for use with the Technetix HPP-xxxF series of 19" 1RU, 1.5RU, 2RU and 3RU mounting panels.

Construction

- Tough, easy to install housing
- Epoxy sealed tongue and groove back cover
- F-connector inner spring designed for connecting coaxial cables with an inner conductor of 0.51mm to 1.30mm - it retains this elasticity, providing effective clamping force even when varying thicknesses of inner conductor are connected in succession.

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidisation of dissimilar metals when in close contact. CPD Safe technology protects against CPD:

- Removes a primary cause of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Reduces truck rolls
- Improves customer service

EN Class A screening

High frequency shielding used on this product exceeds Class A requirements (EN 50083 2 2006) across the whole frequency range from 5MHz to 1000MHz.

CPD Safe

Specifications

		MHz	HT-1-8		HT-1-20	
			Typ	Max	Typ	Max
Insertion loss (dB)	In -> Out	5 - 40	1.6	1.9	0.4	0.7
		40 - 470	1.5	1.7	0.4	0.6
		470 - 862	1.7	2.0	0.5	0.8
		862 - 1000	1.8	2.2	0.6	0.9
Tap loss (dB, min)	In -> Tap	5 - 40	8.5	10.0	20.0	21.0
		40 - 1000	8.5	9.5	20.0	21.0
Return loss (dB, min) ¹	All ports	5 - 10	20.0		20.0	
		10 - 40	22.0		22.0	
		40 - 862	22.0		22.0	
		862 - 1000	14.0		14.0	
Isolation (dB, min) ¹	Out -> Tap	5 - 10	24.0		36.0	
		10 - 40	27.5		39.0	
		40 - 862	27.5		39.0	
		862 - 1000	20.5		32.0	
Screening efficiency (dB, min) ²		5 - 300	85.0		85.0	
		300 - 470	80.0		80.0	
		470 - 1000	75.0		75.0	
Intermodulation p+q (dB, min)	No surge ³		-110.0		-122	
	25 V surge ⁴		-110.0		-115	
	1 kV surge ⁵		-110.0		-115	
Surge Class conformance ⁶		1 kV 1.2/50µS				
Connectors ⁷	All ports	F-female				
Material	Housing	NiSN plated Zinc die-cast				
	F-spring	NiSN plated beryllium copper				
Impedance (Ohm, typ)		75				
Dimensions (mm)	L x H x D	41.0x40.5x19.0				
Equipment approval	CE					

Remarks

	All specifications are measured at room temperature (22°C)
1	Where frequency is above 40 MHz, deduct 1.5 dB/Octave
2	Tested according to EN 50083-2 2006
3	Two carriers (60 and 65 MHz) output to tap @ 120 dBµV/60dBmV, before surge
4	Two carriers (60 and 65 MHz) output to tap @ 120 dBµV/60dBmV, after 1 pulse (25 V/1.2µs rise time/500µs duration) at input port
5	Two carriers (60 and 65 MHz) output to tap @ 120 dBµV/60dBmV, after 1 pulse (1 kV 1.2µs/50µs, IEC 61000-4-5 2005 level 2) at input port
6	Tested according to IEC 61000-4-5 2005
7	F-spring test pin acceptance 0.51mm min to 1.3mm max

Ordering information

Item Name	Article number
HT-1-8	19002755
HT-1-20	19001946
HT-1-20/REV	19003837

© Copyright 2012 Technetix Group Limited. All rights reserved.

This document is for information only. Features and specifications are subject to change without notice. Technetix, the Technetix logo, Ingress Safe, Modem Safe and certain other marks and logos are trade marks or registered trade marks of Technetix Group Limited in the UK and certain other countries. Other brand and company names are trade marks of their respective owners. Technetix protects its technology and designs by registering patents, trade marks and designs in Europe and certain other countries.