

- 1.2 GHz headend tap
- 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 HTX-xx series of high quality 1-way taps has been developed specifically for panel mounting in headend applications, providing a versatile solution to support many different headend solutions. The series consists of 8 dB and 20 dB 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 0.64 mm to 1.14 mm (IEC 61169-24:2019) - it retains this elasticity, providing effective clamping force even when varying thicknesses of inner conductor are connected in succession.

Technetix CPD Safe™

Common Path Distortion (CPD) is well known for producing signal interference on the networks. It is caused by electrolytic corrosion or the oxidation of dissimilar metals when in close contact. Technetix 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 2:2012) across the whole frequency range from 5 MHz to 1218 MHz.

Electrical performance

Characteristic	Port type	MHz	HTX-1-8			HTX-1-20			HTX-1-20/REV			Unit	Notes
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
Insertion loss	In > Out	12 - 470		1.3	2.3		0.4	1.2		0.4	1.2	dB	
		470 - 862		1.7	2.6		0.7	1.3		0.7	1.3	dB	
		862 - 1000		1.9	2.7		0.8	1.3		0.8	1.3	dB	
		1000 - 1218		2.4	2.9		1.1	1.4		1.1	1.4	dB	
Tap loss	In > Tap	12 -1218		8.2	9.5		20.6	21.5		20.6	21.5	dB	
Return loss	All ports	12- 30	18.0			20.0			20.0			dB	
		30 - 1000	20.0			22.0			22.0			dB	1
		1000 - 1218	14.0			15.0			15.0			dB	
Isolation	Out > Tap	12 - 30	30.0			40.0			40.0			dB	1
		30 - 862	30.0			40.0			40.0			dB	1
		862 - 1218	20.0			28.0			28.0			dB	
Screening efficiency		5 - 300	85.0			85.0			85.0			dB	2
		300 - 470	80.0			80.0			80.0			dB	2
		470 - 950	75.0			75.0			75.0			dB	2
		950 - 1218	55.0			55.0			55.0			dB	2
Intermodulation p+q	No surge										-122.0	dBc	3
	25 V surge										-115.0	dBc	4
	1 kV surge										-105.0	dBc	5
Surge class conformance	All ports										1 kV 1.2/50µs		6
Connectors	All ports										F-female		7
Material	Housing										NiSn plated zinc die-cast		
	F-spring										NiSn plated beryllium copper		
Impedance											75	Ohm	
Dimensions	L x H x D										41 X 19 X 41	mm	
Equipment approval											CE		

Notes

	All specifications are measured at room temperature (23°C)
1	At F > 47 MHz -1.5 dB/Octave. For HTX-1-8 - always >14dB Return loss; >21dB Isolation For HTX-1-20 - always >15dB Return loss; >30dB Isolation For HTX-1-20/REV - always >15dB Return loss; >30dB Isolation
2	Tested according to EN 50083-2:2012
3	Two carriers (60 and 65 MHz) output to output @ 120 dB μ V / 60 dBmV, before surge
4	Two carriers (60 and 65 MHz) output to output @ 120 dB μ V / 60 dBmV, after 10 pulses (25 V/1.2 μ s rise time/500 μ s duration) at all ports
5	Two carriers (60 and 65 MHz) output to output @ 120 dB μ V / 60 dBmV, after 1 pulse (1 kV 1.2 μ s/50 μ s, IEC 61000-4-5:2005 level 2) at all ports
6	Tested according to IEC 61000-4-5:2005
7	F-spring tested according to IEC 61169-24:2019

Order information

Item code	Item name	Description
19012990	HTX-1-8	1-WAY HQ HEADEND TAP 8 DB 1.2 GHZ PANEL MOUNT
19012991	HTX-1-20	1-WAY HQ HEADEND TAP 20 DB 1.2 GHZ PANEL MOUNT
19012992	HTX-1-20/REV	1-WAY HQ HEADEND TAP 20 DB 1.2 GHZ REVERSED PANEL MOUNT