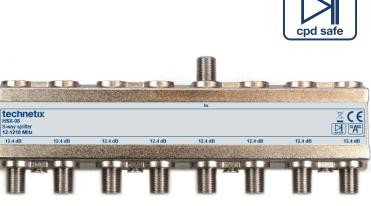
Headend passive modules HSX 8-way splitter

technetix

- 1.2 GHz Headend splitter
- 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, NiSn plated machined-brass input connector with NiSn plated F-inner spring



Overview

The HSX-xx series of high-quality splitters has been developed specifically for panel mounting in headend applications, providing a versatile solution to support many different headend solutions. The series consists of 2, 4 and 8-way low cost, wideband splitters with a connector spacing suitable for use with the Technetix HPPxxxF 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 oxidisation 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.

Headend passive modules HSX 8-way splitter

technetix

Electrical performance

Characteristic	Port type	MHz	Min	Тур	Max	Unit	Notes
		12 - 470		10.5	11.6	dB	
		470 - 862		11.1	12.2	dB	
Insertion loss	In > Out	862 - 1000		11.4	12.4	dB	
		1000 - 1218		12.4	12.8	dB	
	In	12-30	18.0			dB	
		30-1000	20.0			dB	1
Determine		1000-1218	20.0			dB	1
Return loss		12-30	18.0			dB	
	Out	30-1000	20.0			dB	1
		1000-1218	20.0			dB	1
		12-30	26.0			dB	1
Isolation	Out > Out	30 - 862	26.0			dB	1
		862 - 1218	20.0			dB	
		5 - 300	85.0			dB	2
		300 - 470	80.0			dB	2
Screening efficiency		470 - 950	75.0			dB	2
		950- 1218	55.0			dB	2
	No surge	-122.0				dBc	3
Intermodulation p+q	25 V surge	-115.0				dBc	4
	1 kV surge	-105.0				dBc	5
Surge class conformance	All ports	1 kV 1.2/50 μs				6	
Connectors	All ports	F-female				7	
	Housing	NiSn plated zinc die-cast					
Material	F-spring		NiSn plated be	eryllium copper			
Impedance			7	75		Ohm	
Dimensions	L x H x D		173 x	19 x 41		mm	
Equipment approval			C	CE			

Notes

	All specifications are measured at room temperature (23°C)
1	At F > 47 MHz -1.5 dB/octave, always >15 dB return loss; >20 dB 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 dBµV / 60 dBmV, after 10 pulses (25 V/1.2 µs rise time/500 µs duration) at all ports
5	Two carriers (60 and 65 MHz) output to output @ 120 dBµV / 60 dBmV, after 1 pulse (1 kV 1.2 µs/50 µs, 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

ltem code	Item name	Description
19012989	HSX-08	8-WAY HQ HEADEND SPLITTER 1.2 GHZ PANEL MOUNT

Technetix Group Limited

e: sales@technetix.com w: technetix.com

09/2020 - EN/V6

 $\ensuremath{\mathbb{C}}$ Copyright 2020 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, Technetix Ingress Safe^{*}, Technetix 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.