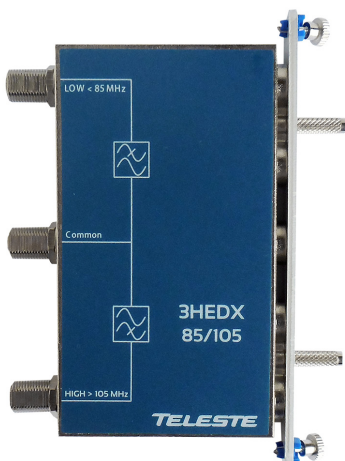


Indoor RF Passives

3HEDX85/105

The 3HEDX85/105 is a 5-85/105-1218 MHz Diplexer Filter. In the search of more available bandwidth in the return, the 3HEDX85/105 offers a step-up to the DOCSIS 3.1 return bandwidths.



3HEDX85/105 features

- Fast installation and replacement
- F-female separate connectors
- Minimal insertion loss
- Superior isolation

TELESTE

HE PASSIVES

TECHNICAL CHARACTERISTICS			
Frequency range (MHz)	Typ.	Min.	Max.
INSERTION LOSS (dB) FOR FORWARD PATH - IN TO HIGH			
105...120			1.2
120...1006			0.8
1006...1218			1.0
REJECTION (dB) FOR FORWARD PATH - IN TO HIGH			
5...85		48.0	
INSERTION LOSS (dB) FOR RETURN PATH - IN TO LOW			
5...81			0.8
81...85			1.2
REJECTION (dB) FOR RETURN PATH - IN TO LOW			
105...400		45.0	
400...1006		45.0	
1006...1218		45.0	
RETURN LOSS (dB) FOR COMMON PORT - IN PORT			
5...7		16.5	
7...85		18.0	
105...1006		16.5	
1006...1218		15.0	
RETURN LOSS (dB) FOR FORWARD PATH - HIGH PORT			
105...0006		16.5	
1006...1218		15.0	
RETURN LOSS (dB) FOR RETURN PATH - LOW PORT			
5...7		16.5	
7...85		18.0	
GROUP DELAY (ns) - HIGH PORT (1)			
105...110			13.0
110...115			8.0
115...1218			6.0
GROUP DELAY (ns) - LOW PORT (2)			
5...81			6.0
81...83			7.0
83...85			10.0
ISOLATION (dB) - LOW TO HIGH (3)			
5...85		48.0	
85...105		45.0	
105...400		45.0	
400...1006		45.0	
1006...1218		45.0	

HE PASSIVES

MECHANICAL SPECIFICATIONS			
Housing and cover	Material	Zinc die-cast	
	Finishing	Nickel plated	
Top Cover	Material	Aluminium	
	Finishing	Anodized	
Connectors, all ports	Type	F-Female	acc. to IEC-61169-24 (not molded)
GENERAL SPECIFICATIONS			
Impedance	75 Ohm	Operating temperature range	0 to + 55°C
Surge immunity on all RF ports (min.) (4)	1kV, IEC60728-3	Dimensions L x W x H (5)	111 x 65 x 17 mm
Class of enclosure	IP40	Weight	0,3 Kg
Equipment approval	CE marking		
	EMC	IEC60728-2	
		EN50083-2:2012	
		EN61000-3-2:2014	
		EN61000-3-3:2013	
NOTES			
<p>(1) dF = 4.433 MHz (2) dF = 2.0 MHz (3) The isolation is measured between Return and Forward connectors. The common port is terminated. (4) EN61000-4-5, 1.2/50µs pulse applied to RF ports. No degradation allowed. (5) The dimensions don't take into account the front plate, F-connectors and handles.</p>			
BLOCK DIAGRAM			
ORDERING INFORMATION			
3HEDX85/105	5-85/105-1218 MHz Diplexer Filter		

TELESTE

TELESTE CORPORATION
www.teleste.com

3HEDX85-105_190131

Copyright © 2019 Teleste Corporation. All rights reserved. Teleste and the Teleste logo are registered trademarks of Teleste Corporation. Other product and service marks are property of their respective owners. Teleste reserves the right to make changes to any features and specifications of the products without prior notice. Although the information in this document has been reproduced in good faith, the contents of this document are provided "as is". Teleste makes no warranties of any kind in relation to the accuracy, reliability or contents of