






# VDSL FILTER MODULES

## For Infineon VDSL 10Base-S Chipsets



-  Matched to Infineon PEF22822/22811 VDSL 10Base-S chipsets
-  Single Port Filter modules for VDSL NT modem applications
-  Multi-function model includes: HPF Splitter, Hybrid Transformer, TX and RX Separation Filters and Common Mode Choke
-  Designed to meet IEC950 supplementary insulation requirements
-  Most compact footprint module available in the industry

### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

Part Number	TX to Line Specifications			Line to RX Specifications		
	Insertion Loss (dB MAX) (4.1 MHz - 7.9 MHz)	Stopband Frequency	Attenuation (MIN) (dB)	Insertion Loss (dB MAX) (1 MHz - 3.4 MHz)	Stopband Frequency	Attenuation (dB MIN)
BX4039	1	10 kHz - 100 kHz	65	1.5	10 kHz - 300 kHz	30
		100 kHz - 300 kHz	20		4.1 MHz - 5.5 MHz	15
		17 MHz - 40 MHz	15		5.5 MHz - 40 MHz	30
BX4040	1	10 kHz - 100 kHz	65	1.5	10 kHz - 500 kHz	30
		100 kHz - 500 kHz	20		4.1 MHz - 5.5 MHz	15
		17 MHz - 40 MHz	15		5.5 MHz - 40 MHz	30

### Additional Specifications

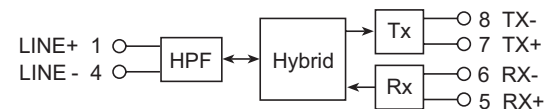
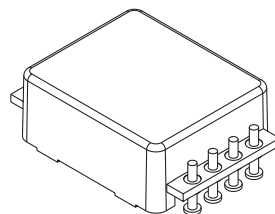
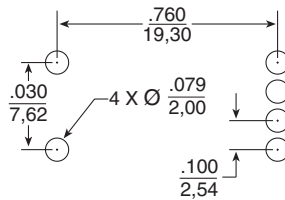
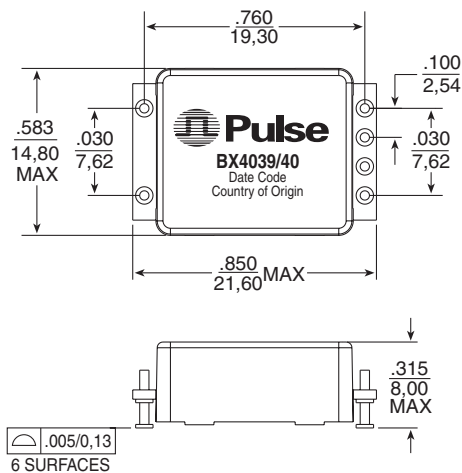
Part Number	Line Return Loss (dB MIN) 4.1 MHz - 7.9 MHz	Transhybrid Loss (dB MIN)		Isolation Voltage (Vrms)	Line Impedance (Ω)	TX Impedance (Ω)	RX Impedance (Ω)
		1 MHz - 3.4 MHz	4.1 MHz - 7.9 MHz				
BX4039	12	16	45	1500	120	40	270
BX4040	12	16	45	1500	120	40	270

NOTE: BX4039 is for ISDN/POTS applications. BX4040 is for Smartphone applications.

## Mechanical

## Schematic

### BX4039/BX4040



Weight . . . . . 2.075 grams  
Tape & Reel . . . . . 650/reel  
Tube . . . . . 30/tube

Dimensions: Inches  
mm  
Unless otherwise specified, all tolerances are ± .010 / 0,25

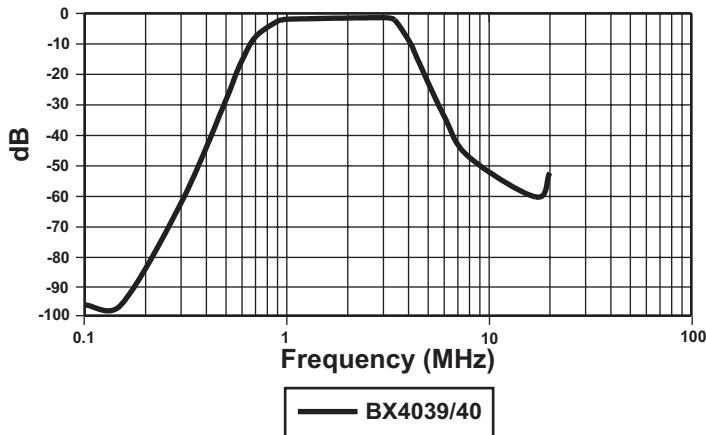
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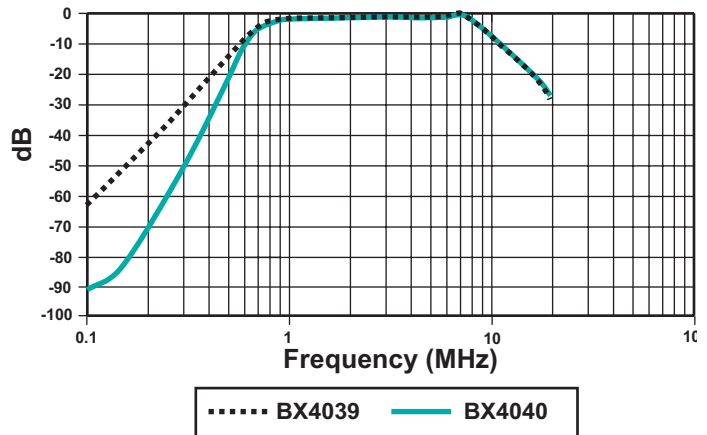


### Typical Performance @ 25°C BX4039 & BX4040

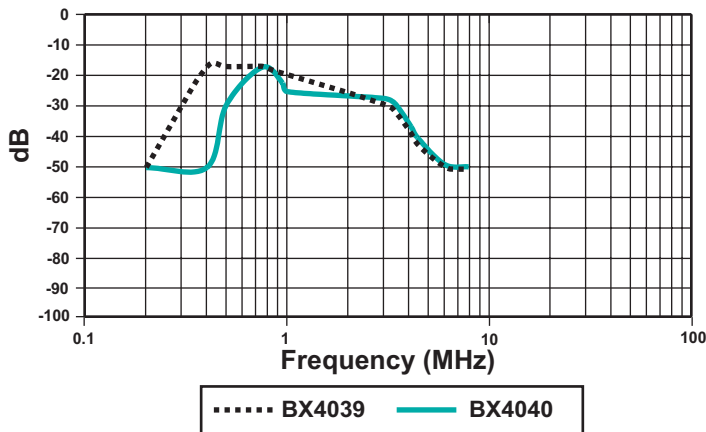
#### RX Insertion Loss



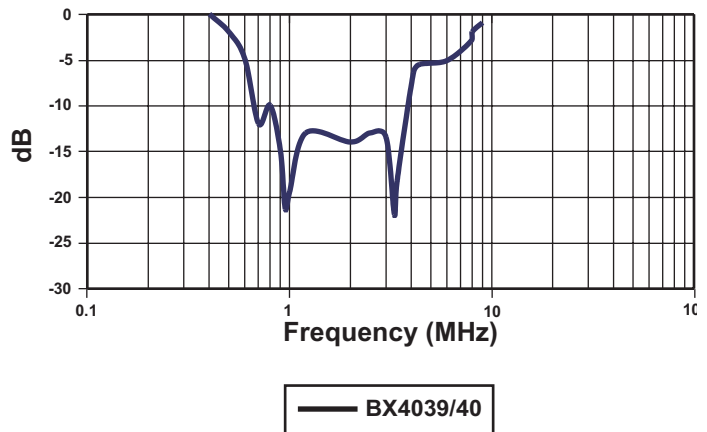
#### TX Insertion Loss



#### Transhybrid Loss



#### Return Loss



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