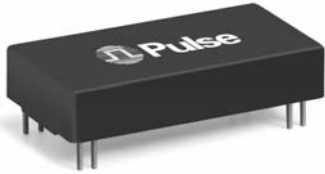


VDSL SINGLE PORT CPE FILTER MODULES

For Infineon 4-band VDSL Chipsets



- Single port CPE filter module for 4-band VDSL NT applications (Plan 998)
- Matched to Infineon PEF22814/22815 4-band VDSL chipsets
- Multi-function model includes: HPF Splitter, Hybrid Transformer, TX and RX Separation Filters and Common Mode Choke
- Designed to meet IEC950 supplementary insulation requirements

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

Part Number	Line to RX Specifications			Transhybrid Loss @ 0.138 - 3.4MHz and 5.7 - 8.1MHz	Transhybrid Loss @ 4.0 - 5.04MHz and 9.1 - 11.9MHz	Line Return Loss @ 0.138 - 3.4MHz and 5.7 - 8.1MHz
	Passband @ 0.138 - 3.4MHz and 5.7 - 8.1MHz	Stopband Frequency	Attenuation (relative to Passband)			
BX4045	Nominal Gain 7.5dB (TYP)	10 - 60kHz	40dB (MIN)	25dB (MIN)	37dB (MIN)	12dB (MIN)
		4 - 5.04MHz	17dB (MIN)			
	Ripple 2.5dB (MAX)	9.1 - 11.9MHz	17dB (MIN)			
		26 - 40MHz	26dB (MIN)			
Part Number	Line to RX Specifications			Transhybrid Loss @ 0.9 - 3.4MHz and 5.7 - 8.1MHz	Transhybrid Loss @ 4.0 - 5.04MHz and 9.1 - 11.9MHz	Line Return Loss @ 0.9 - 3.4MHz and 5.7 - 8.1MHz
	Passband @ 0.138 - 3.4MHz and 5.7 - 8.1MHz	Stopband Frequency	Attenuation (relative to Passband)			
BX4042	Nominal Gain 7.5dB (TYP)	10 - 220kHz	60dB (MIN)	30dB (MIN)	37dB (MIN)	12dB (MIN)
		4 - 5.04MHz	17dB (MIN)			
	Ripple 1.5dB (MAX)	9.1 - 11.9MHz	17dB (MIN)			
		26 - 40MHz	26dB (MIN)			

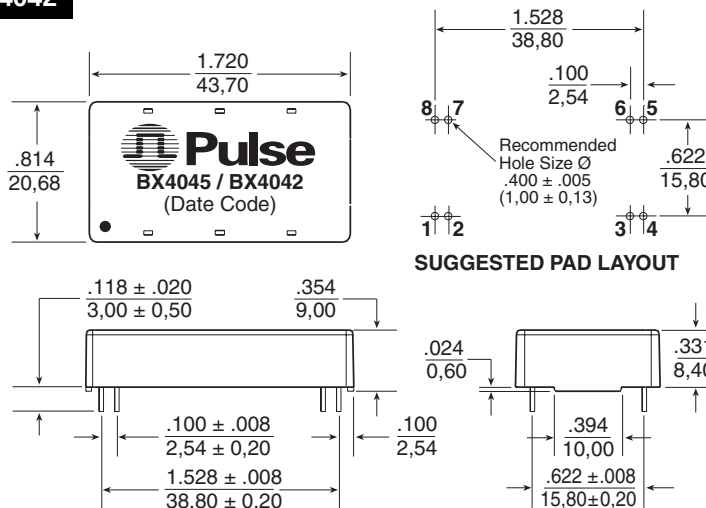
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

Part Number	TX to Line Specifications			Isolation Voltage (Vrms)	Line Impedance (Ω)	TX Impedance (Ω)	RX Impedance (Ω)
	Passband @ 4.0 - 5.04MHz and 9.1 - 11.9MHz	Stopband Frequency	Attenuation (relative to Passband)				
BX4045	Nominal Gain 4.0dB (TYP)	10 - 60kHz (BX4042: up to 150MHz)	40dB (MIN)	1500	120	40	270
BX4042	Ripple 2.5dB (MAX)	22 - 40MHz	22dB (MIN)				

NOTE: BX4045 for 4-band plan 998: 138kHz starting frequency — BX4042 for 4-band plan 998: 900kHz starting frequency

Mechanical

BX4045/BX4042



	BX4042	BX4045
Weight.....	6.8 grams	8.0 grams
Tray.....	30/tray	30/tray
Dimensions: Inches mm		
Unless otherwise specified, all tolerances are ±	.010 0.25	

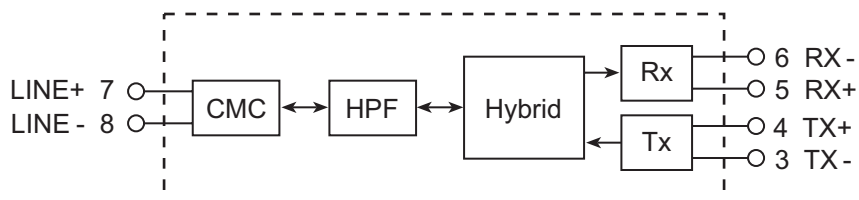
VDSL SINGLE PORT CPE FILTER MODULES

For Infineon 4-band VDSL Chipsets



Schematic

BX4045/BX4042



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