Z-400UK xDSL over POTS In-Line Filter



Description

The Z-400UK is a BT SIN498 VDSL2 customer premises equipment filter designed to expedite the service delivery and improve the performance of DSL services over plain old telephone service (POTS) in the United Kingdom. The Z-400UK filters all telephones, and other telephone equipment. Its filter design electronically isolates the high-speed DSL data stream from the voice-band equipment to provide premium voice quality and optimal DSL data rates.



Z-400UK filter provides a DSL convenience jack for connecting a DSL modem

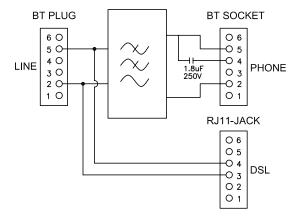
Features

- Compliant to BT SIN498 VDSL2 Standard
- Provides a DSL convenience jack for connecting a DSL modem or HPN device
- Compliant to ETSI 952-3 Option B Standard
- CE certified
- RoHS and WEEE compliant

Applications

The DSL user installs the Z-400UK filter into every telephone jack in the subscribers' premises that contains voice-band equipment devices such as cordless telephones, answering machines, fax machines and television set-top boxes.

The Z-400UK is one of many filters and splitters manufactured by Pulse for subscriber-installed digital services within homes, offices, and hotels.

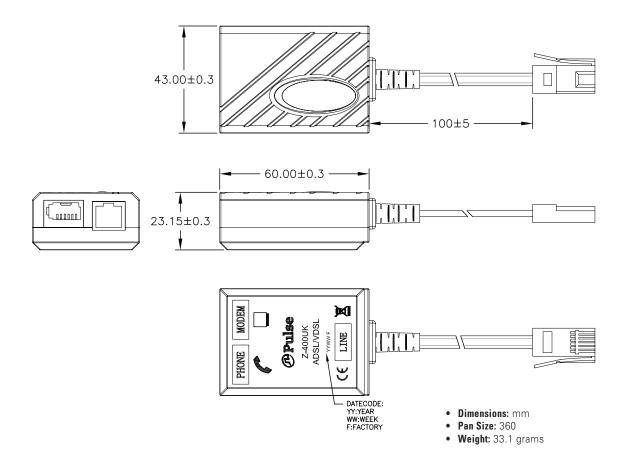


Z-400UK Block Schematic – includes a BT specified "Ringing Capacitor"

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Z-400UK Electical Specifications Matching BT impedance for voice terminals		150nF // $750\Omega + 270\Omega$
POTS Pass Band Return Loss	ioo tommalo	100m // 700 12 1 27011
	0.3 - 0.5kHz	14dB Min
Line and Phone port with 1 filter	0.5 - 2.0kHz	18dB Min
	2.0 - 3.4kHz	14dB Min
Line port with 2 filter	0.3 - 0.5kHz	14dB Min
	0.5kHz	18dB Min
	0.5 - 2.0kHz	16dB Min
	2.0 - 3.4kHz	12dB Min
Line port with 3 filter	0.3 - 0.5kHz	14dB Min
	0.5 kHz	18dB Min
	0.5 - 2.0kHz	14dB Min
	2.0 - 3.4kHz	10dB Min
Off-Hook Insertion Loss: Maxir		'
200Hz < f < 4kHz, with 1 filter		2.0dB Max
200Hz < f < 4kHz, with 2 filter		2.5dB Max
200Hz < f < 4kHz, with 3 filter		3.0dB Max
<u> </u>	igh impedance: Maximum IL and	· · · · · · · · · · · · · · · · · · ·
200Hz < f < 2.8kHz, with 1~3 filter		4.0dB Max
· · · · · · · · · · · · · · · · · · ·	ow impedance: Maximum IL and I	
200Hz < f < 2.8kHz, with 1 filter		2.0dB Max
Jnbalance About Earth (termin		
50Hz to 600Hz		40dB Min
600Hz to 3400Hz		46dB Min
3400Hz to 4000Hz		40dB Min
Longitudinal Balance (25kHz to 1.1MHz)		40dB Min
	ation (Insertion Loss) w/100 Ω at L	
32kHz to 200KHz		30dB Min
200kHz to 30MHz		55dB Min
DSL Signal Loss	32kHz to 50kHz	3.0dB Max
	50kHz to 30MHz	1.0dB Max
Group Delay	0.2 - 0.6kHz	250us Max
	0.6 - 3.2kHz	200us Max
	3.2 - 4.0kHz	250us Max
DC Resistance		50Ω Max
Isolation impedance		5MΩ Min
Ringing voltage drop at 25Hz and 50Hz		< 2VRMS(source e.m.f. 35 VRMS
DC Feeding Current (Loop Current)		< 80 mA
AC ringing voltage (25-50Hz)		< 100 Vrms
	11 Jack (DSL); UK socket (Phone)	

Mechanical Specifications



For More Information:

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