

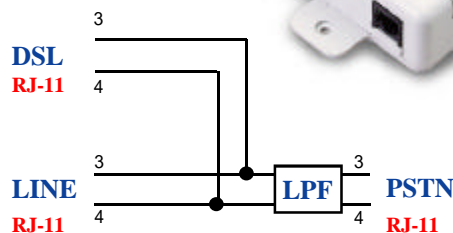
ALS-10

ADSL Line Splitter

The **ALS-10** is a low-cost, compact, passive low-pass filter designed to provide POTS (Plain Old Telephone System) service to a line that is utilizing ADSL technology. This device is designed to eliminate interference to POTS equipment by blocking high frequency energy (20KHz~1.1MHz).

FEATURES

- Handles all POTS loop current from 0mA to 100mA.
- Compact size.
- Consists exclusively of all passive elements.
- Designed for implementation of ADSL CPE application.
- Provides excellent isolation between DSL and POTS.
- -10 to +70°C operating temperature range.
- Complies with Annex E.2 of ITU-T G.992.1
- If the power supply or ATU-C/ATU-R fails, telephone service on the ADSL line will operate normally.



SPECIFICATIONS

PARAMETER	CONDITION	MIN.	TYP.	MAX.	UNITS.
Impedance	300 to 3.4KHz		600		Ohms
Insertion loss	1004Hz short loop			1.0	dB
	1004Hz long loop			0.75	dB
Attenuation distortion	200 to 3.4KHz short loop	-1.5		1.5	dB
	3.4K to 4.0KHz short loop	-2.0		2.0	dB
	200 to 3.4KHz long loop	-1.5		0.5	dB
	3.4K to 4.0KHz short loop	-1.5		1.0	dB
Cut off frequency	-3dB		10		KHz
ADSL band Attenuation	30K to 300KHz	-65			dB
	300K to 1104KHz	-55			dB
Delay Distortion	600 to 3.2KHz			200	us
	200 to 4.0KHz			250	us
Return loss	ERL	6			dB
	SRL-L	5			dB
	SRL-H	3			dB
Common Mode Rejection Ratio	600 to 3.2KHz	-100			dB
Longitudinal Balance	200 to 1.0KHz	-60			dB
	200 to 3.0KHz	-60			dB
DC Resistance				20	Ohms
Isolation resistance to Earth		5.0M			Ohms
DC current carrying capacity				100	mA
Operating temperature		-10		70	°C
Storage temperature		-15		70	°C
Humidity		10		90	%
ESD discharge limits		15K			VDC

ORDERING INFORMATION

- **ALS-10-6-RJ11-N** ADSL Line Splitter for ADSL CPE application, 600 ohm, 8K Hz, DSL is RJ-11

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