

ALS-M10

ADSL Micro-Filter

The **ALS-M10** 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



SPECIFICATIONS

PARAMETER	CONDITION	MIN.	TYP.	MAX.	UNITS.
Low pass filter order			3		Pole
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 long loop	-1.5		1.0	KHz
Cut off frequency	-3dB		12K		dB
Attenuation	30KHz	-25			dB
	50KHz	-40			us
Delay Distortion	600 to 3.2KHz			200	us
	200 to 4.0KHz			250	dB
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		80	°C
Humidity		10		90	%
ESD discharge limits		15K			VDC

ORDERING INFORMATION

- **ALS-M10** The ADSL Low-Pass Filter

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ISO 9001