

PARTNUMBER : ATF101ASR REV : _____

Item	Spec	Impedance		Frequency	1	2	3	4	5	6
Insertion Loss Line-Phone	<=1dB	Z _{ADSL}	Z _{POTS}	Z _{POTS}	1KHz	0.06	0.06	0.06	0.06	0.06
		Z _{VDSL2-1}				0.04	0.04	0.04	0.04	0.04
		IDLE				0.02	0.02	0.02	0.02	0.02
	+/- 1.0dB	Z _{ADSL}	Z _{POTS}	Z _{POTS}	300Hz to 3400Hz Ref.@1KHz	(@300)0.01 (@3400)0.15	(@300)0.01 (@3400)0.14	(@300)0.01 (@3400)0.14	(@300)0.01 (@3400)0.14	(@300)0.01 (@3400)0.14
		Z _{VDSL2-1}				(@300)0.01 (@3400)0.12	(@300)0.01 (@3400)0.14	(@300)0.01 (@3400)0.14	(@300)0.01 (@3400)0.14	(@300)0.01 (@3400)0.14
		IDLE				(@300)0.01 (@3400)0.12	(@300)0.01 (@3400)0.12	(@300)0.01 (@3400)0.12	(@300)0.01 (@3400)0.12	(@300)0.01 (@3400)0.12
	<3.0dB	Z _{ADSL}	200 OHM	200 OHM	16KHz +/-1KHz	0.65	0.64	0.64	0.64	0.65
		Z _{VDSL2-1}				0.42	0.48	0.46	0.48	0.46
		IDLE				0.38	0.35	0.33	0.35	0.35
	<=1.2dB	Z _{ADSL}	Z _{ISDN}	Z _{ISDN}	1KHz to 60KHz	0.14~0.60	0.10~0.58	0.10~0.56	0.10~0.58	0.10~0.58
		Z _{VDSL2-1}				0.14~0.56	0.10~0.52	0.10~0.50	0.10~0.52	0.10~0.54
	<=1.5dB	IDLE	Z _{ISDN}	Z _{ISDN}		0.14~0.48	0.10~0.48	0.10~0.46	0.10~0.48	0.10~0.48
	<=2.0dB	Z _{ADSL}	Z _{ISDN}	Z _{ISDN}	60KHz to 80KHz	0.60~1.1	0.58~1.08	0.56~1.10	0.58~1.10	0.58~1.08
		Z _{VDSL2-1}				0.56~1.08	0.52~1.06	0.50~1.08	0.52~1.06	0.54~1.06
	<=2.5dB	IDLE	Z _{ISDN}	Z _{ISDN}		0.48~1.14	0.48~1.14	0.46~1.12	0.48~1.14	0.48~1.12
Insertion Loss Line-ADSL	<=4.0dB	Z _{ADSL}	Z _{ISDN}	Z _{LINE}	120KHz to 170KHz	0.44~0.54	0.50~0.68	0.50~0.66	0.46~0.66	0.50~0.60
			Z _{POTS}			0.40~0.52	0.45~0.56	0.45~0.58	0.44~0.54	0.44~0.54
			IDLE			0.26~0.18	0.28~0.16	0.28~0.16	0.26~0.18	0.26~0.16
	<=1.0dB	Z _{ADSL}	Z _{ISDN}	Z _{LINE}	170KHz to 30MHz	0.54~0.22	0.68~0.37	0.66~0.22	0.66~0.22	0.60~0.24
			Z _{POTS}			0.52~0.18	0.56~0.24	0.58~0.28	0.54~0.30	0.54~0.28
			IDLE			0.18~0.14	0.16~0.15	0.16~0.12	0.18~0.14	0.16~0.12
Attenuation ADSL-Phone	>=55dB	Z _{ADSL}	Z _{POTS}	Z _{LINE}	138KHz to 30MHz	74.52~56.88	75.24~56.58	75.25~56.46	74.32~56.14	74.14~56.35
		Z _{VDSL2-1}				75.20~56.86	74.16~56.64	75.89~56.74	75.24~56.28	75.62~56.48
Attenuation ADSL-Phone	>=55dB	Z _{ADSL}	Z _{ISDN}	Z _{LINE}	138KHz to 150KHz	71.8~82.22	83.18~86.12	79.48~85.15	81.45~86.18	80.54~84.05
		Z _{VDSL2-1}				72.25~81.82	82.77~85.19	80.26~84.88	82.08~85.12	82.06~82.89
	>=62dB	Z _{ADSL}			150KHz to 1104KHz	82.22~78.46	86.12~78.70	85.15~77.94	86.18~77.80	84.05~78.18
		Z _{VDSL2-1}				81.82~75.52	85.19~78.54	84.88~76.60	85.12~76.19	82.89~75.53
	>=55dB	Z _{ADSL}			1104KHz to 30MHz	78.46~60.15	78.70~60.70	77.94~61.09	77.80~60.86	78.18~60.21
		Z _{VDSL2-1}				75.52~60.64	78.54~60.62	76.60~60.37	76.19~59.94	75.53~60.01
Return Loss	300 to 3400Hz>=1 2dB	Z _{ADSL}	Z _{POTS}	Z _{POTS}	300Hz to 3400Hz	(@300)26.25 (@600)20.23 (@1500)16.16 (@3400)13.88	(@300)26.28 (@600)21.00 (@1500)16.06 (@3400)13.64	(@300)26.58 (@600)20.86 (@1500)16.10 (@3400)13.44	(@300)26.82 (@600)21.64 (@1500)16.80 (@3400)13.17	(@300)26.00 (@600)21.04 (@1500)16.12 (@3400)13.20
						(@300)25.79 (@600)20.32 (@1500)16.78 (@3400)13.66	(@300)26.68 (@600)21.40 (@1500)16.42 (@3400)13.94	(@300)26.72 (@600)21.05 (@1500)16.35 (@3400)13.28	(@300)26.68 (@600)21.20 (@1500)16.84 (@3400)13.54	(@300)26.42 (@600)21.65 (@1500)16.10 (@3400)13.00
						(@300)27.78 (@600)23.50 (@1500)18.14 (@3400)14.24	(@300)27.82 (@600)22.52 (@1500)17.46 (@3400)14.96	(@300)27.13 (@600)22.86 (@1500)17.44 (@3400)14.26	(@300)27.52 (@600)22.34 (@1500)16.78 (@3400)14.40	(@300)27.78 (@600)21.68 (@1500)17.56 (@3400)14.50
	>=16dB	Z _{ADSL}			1KHz to 60KHz	37.78~17.80	38.48~17.80	38.40~17.18	38.56~17.60	36.28~17.78
		Z _{VDSL2-1}				35.60~24.06	38.20~23.02	36.56~23.58	35.66~23.56	35.58~23.45
	>=12dB	IDLE				35.24~15.52	37.54~18.56	35.38~17.44	35.40~17.34	35.05~17.56
	>=14dB	Z _{ADSL}			60KHz to 80KHz	17.80~16.58	17.80~19.70	17.18~16.40	17.60~16.32	17.78~16.06
		Z _{VDSL2-1}				24.06~21.20	23.02~18.96	23.58~18.29	23.56~18.24	23.45~19.54
	>=10dB	IDLE				15.52~11.74	18.56~11.44	17.44~11.68	17.32~11.28	17.56~11.10