

PARTNUMBER : ATF108R REV : _____

Item	Spec	Impedance			Frequency	1	2	3	4	5	6
		DSL	ISDN/POTS	LINE							
Insertion Loss Line-Phone	<=1dB	Z _{ADSL}	Z _{POTS}	Z _{POTS}	1KHz	0.22	0.24	0.34	0.26	0.32	0.26
		Z _{VDSL2-I}				0.2	0.2	0.32	0.25	0.3	0.24
		IDLE				0.16	0.16	0.28	0.18	0.28	0.22
	+/- 1.0dB	Z _{ADSL}	Z _{POTS}	Z _{POTS}	300Hz to 3400Hz Ref.1KHz	(@300)0.02 (@3400)0.78	(@300)0.02 (@3400)0.74	(@300)0.16 (@3400)0.86	(@300)0.02 (@3400)0.74	(@300)0.08 (@3400)0.80	(@300)0.02 (@3400)0.74
		Z _{VDSL2-I}				(@300)0.02 (@3400)0.68	(@300)0.02 (@3400)0.62	(@300)0.02 (@3400)0.86	(@300)0.02 (@3400)0.70	(@300)0.06 (@3400)0.78	(@300)0.02 (@3400)0.68
		IDLE				(@300)0.02 (@3400)0.54	(@300)0.02 (@3400)0.58	(@300)0.02 (@3400)0.66	(@300)0.02 (@3400)0.59	(@300)0.02 (@3400)0.58	(@300)0.02 (@3400)0.56
	<3.0dB	Z _{ADSL}	200 OHM	200 OHM	16KHz +/-1KHz	0.41	0.42	0.43	0.37	0.41	0.37
		Z _{VDSL2-I}				0.38	0.39	0.4	0.33	0.37	0.32
		IDLE				0.3	0.32	0.38	0.31	0.32	0.3
	<=1.2dB	Z _{ADSL}	Z _{ISDN}	Z _{ISDN}	1KHz to 60KHz	0.10~0.50	0.16~0.56	0.10~0.52	0.10~0.46	0.10~0.56	0.08~0.48
		Z _{VDSL2-I}				0.10~0.46	0.14~0.52	0.10~0.50	0.10~0.50	0.10~0.58	0.08~0.54
	<=1.5dB	IDLE	Z _{ISDN}	Z _{ISDN}		0.10~0.52	0.14~0.54	0.10~0.54	0.10~0.48	0.10~0.58	0.08~0.52
	<=2.0dB	Z _{ADSL}	Z _{ISDN}	Z _{ISDN}	60KHz to 80KHz	0.50~0.82	0.56~0.90	0.52~0.86	0.46~0.80	0.56~0.86	0.48~0.90
		Z _{VDSL2-I}				0.46~0.80	0.52~0.90	0.54~0.82	0.50~0.78	0.58~0.82	0.54~0.84
	<=2.5dB	IDLE	Z _{ISDN}	Z _{ISDN}		0.52~0.90	0.54~1.08	0.54~0.92	0.48~0.92	0.58~1.04	0.52~0.92
Insertion Loss Line-ADSL	<=4.0dB	Z _{ADSL}	Z _{ISDN}	Z _{LINE}	120KHz to 170KHz	0.48~0.26	0.56~0.24	0.56~0.28	0.54~0.21	0.54~0.22	0.58~0.24
			Z _{POTS}			0.46~0.24	0.54~0.23	0.54~0.22	0.52~0.20	0.51~0.20	0.54~0.20
			IDLE			0.26~0.18	0.32~0.20	0.32~0.17	0.30~0.20	0.28~0.19	0.34~0.18
	<=1.0dB	Z _{ADSL}	Z _{ISDN}	Z _{LINE}	170KHz to 30MHz	0.26~0.18	0.24~0.18	0.28~0.22	0.21~0.16	0.22~0.14	0.24~0.18
			Z _{POTS}			0.24~0.16	0.23~0.20	0.22~0.18	0.20~0.14	0.20~0.13	0.20~0.12
		IDLE			0.18~0.10	0.20~0.16	0.17~0.10	0.20~0.08	0.19~0.07	0.18~0.12	
Attenuation ADSL-Phone	>=55dB	Z _{ADSL} Z _{VDSL2-I}	Z _{POTS}	Z _{LINE}	138KHz to 30MHz	77.82~56.04 76.20~56.00	74.74~56.54 73.30~56.48	70.16~56.10 69.44~55.92	75.26~55.76 74.08~55.66	73.26~56.16 72.18~56.10	75.16~56.26 72.40~56.12
Attenuation ADSL-Phone	>=55dB	Z _{ADSL} Z _{VDSL2-I}	Z _{ISDN}	Z _{LINE}	138KHz to150KHz	77.72~68.74 75.96~67.64	72.84~67.66 74.28~69.78	70.16~62.10 69.44~65.78	71.26~66.96 72.38~66.09	71.96~66.58 71.26~66.94	69.60~65.82 69.52~64.38
		>=62dB			Z _{ADSL} Z _{VDSL2-I}	150KHz to 1104KHz	68.74~65.46 67.64~65.42	67.66~74.56 69.78~75.78	62.10~66.32 65.78~66.40	66.96~65.86 66.09~64.50	66.58~66.20 66.94~65.98
	>=55dB	Z _{ADSL} Z _{VDSL2-I}			1104KHz to 30MHz	65.46~69.13 65.42~69.20	74.56~63.28 75.78~63.19	66.32~60.31 66.40~60.33	65.86~60.25 64.50~60.88	66.20~60.68 65.98~60.30	65.90~60.40 64.10~60.04
Return Loss	>=12dB	Z _{ADSL}	Z _{POTS}	Z _{POTS}	300Hz to 3400Hz	(@300)25.60 (@600)20.44	(@300)25.88 (@600)20.48	(@300)26.00 (@600)20.62	(@300)25.88 (@600)20.46	(@300)25.82 (@600)20.46	(@300)26.20 (@600)20.78
	600Hz to 1500Hz				(@1500)15.10 (@3400)12.46	(@1500)15.10 (@3400)12.48	(@1500)15.22 (@3400)12.58	(@1500)15.10 (@3400)12.46	(@1500)15.08 (@3400)12.44	(@1500)15.38 (@3400)12.72	
	>=15dB	Z _{VDSL2-I}			300Hz to 3400Hz	(@300)25.94 (@600)20.78	(@300)26.26 (@600)20.86	(@300)26.36 (@600)20.42	(@300)26.32 (@600)20.90	(@300)26.24 (@600)20.84	(@300)26.22 (@600)20.80
	600Hz to 1500Hz				(@1500)15.44 (@3400)12.74	(@1500)15.42 (@3400)12.76	(@1500)15.33 (@3400)12.68	(@1500)15.50 (@3400)12.82	(@1500)15.42 (@3400)12.76	(@1500)15.40 (@3400)12.74	
	>=12dB	IDLE			300Hz to 3400Hz	(@300)26.86 (@600)21.84	(@300)27.32 (@600)21.94	(@300)27.15 (@600)22.38	(@300)27.31 (@600)21.86	(@300)27.12 (@600)21.86	(@300)27.60 (@600)21.54
	600Hz to 1500Hz				(@1500)16.40 (@3400)13.60	(@1500)16.40 (@3400)13.64	(@1500)16.52 (@3400)13.76	(@1500)16.44 (@3400)13.62	(@1500)16.43 (@3400)13.16	(@1500)16.28 (@3400)13.22	
	>=15dB										
	>=16dB	Z _{ADSL} Z _{VDSL2-I}	Z _{ISDN}	Z _{ISDN}	1KHz to 60KHz	38.50~22.66 38.76~26.18	38.58~20.70 38.64~26.62	39.38~20.56 39.82~23.64	39.04~26.56 39.34~23.42	39.24~26.76 39.60~28.66	39.16~27.56 39.48~26.32
	>=12dB	IDLE									
	>=14dB	Z _{ADSL} Z _{VDSL2-I}	Z _{ISDN}	Z _{ISDN}	60KHz to 80KHz	22.66~20.10 26.18~22.12	20.70~23.38 26.62~20.90	20.56~22.02 23.64~20.22	26.56~21.36 23.42~22.08	26.76~20.80 28.66~21.32	27.56~21.00 26.32~22.15
	>=10dB	IDLE									