

Advanced Control Components' line of switched-bit PIN diode digital attenuators offers precision, reliability, and repeatability for the most demanding applications. The AT series digital attenuators are available in convenient binary 4-, 5-, and 6-bit configurations with 0.5dB resolution and up to 63dB total attenuation. The attenuators require only a single +5V DC power supply and feature TTL-compatible control logic. All switches incorporate DC blocks at the RF ports. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle. The attenuators are also available with hermetic seal and high-rel screening for mil and space applications.



Applications:

- EW Systems
- Communications Systems
- Automatic Gain Control
- Test Equipment
- Electronic Simulators
- Leveling Circuits

Frequency Range	Part Number	Type	Total Attenuation			Insertion Loss		VSWR (max)
			(dB)	LSB (dB)	MSB (dB)	(dB max)		
1 – 2 GHz	ATL4A	4-BIT	7.5	0.5	4	2.5	1.5	
	ATL4B	4-BIT	15	1	8	2.5	1.5	
	ATL4C	4-BIT	30	2	16	2.5	1.5	
	ATL4D	4-BIT	60	4	32	2.5	1.5	
	ATL5A	5-BIT	15.5	0.5	8	2.8	1.5	
	ATL5B	5-BIT	31	1	16	2.8	1.5	
	ATL5C	5-BIT	62	2	32	2.8	1.5	
	ATL6A	6-BIT	31.5	0.5	16	3.3	1.6	
	ATL6B	6-BIT	63	1	32	3.3	1.8	
	2 – 4 GHz	ATS4A	4-BIT	7.5	0.5	4	2.9	1.6
ATS4B		4-BIT	15	1	8	2.9	1.6	
ATS4C		4-BIT	30	2	16	2.9	1.6	
ATS4D		4-BIT	60	4	32	2.9	1.6	
ATS5A		5-BIT	15.5	0.5	8	3.1	1.6	
ATS5B		5-BIT	31	1	16	3.1	1.6	
ATS5C		5-BIT	62	2	32	3.1	1.6	
ATS6A		6-BIT	31.5	0.5	16	3.7	1.7	
ATS6B		6-BIT	63	1	32	3.7	1.7	

CONTROL LOGIC TABLE							
Part Number	E1	E2	E3	E4	E5	E6	
ATL4A / ATS4A	0.5dB	1dB	2dB	4dB	N/C	N/C	
ATL4B / ATS4B	1dB	2dB	4dB	8dB	N/C	N/C	
ATL4C / ATS4C	2dB	4dB	8dB	16dB	N/C	N/C	
ATL4D / ATS4D	4dB	8dB	16dB	32dB	N/C	N/C	
ATL5A / ATS5A	0.5dB	1dB	2dB	4dB	8dB	N/C	
ATL5B / ATS5B	1dB	2dB	4dB	8dB	16dB	N/C	
ATL5C / ATS5C	2dB	4dB	8dB	16dB	32dB	N/C	
ATL6A / ATS6A	0.5dB	1dB	2dB	4dB	8dB	16dB	
ATL6B / ATS6B	1dB	2dB	4dB	8dB	16dB	32dB	

Attenuation Accuracy: +/-0.4dB (0-20dB attenuation)
 +/-2% (above 20dB attenuation)
 Attenuation Flatness: +/-0.5dB max
 Logic Control: TTL 0 = Low Loss
 TTL 1 = Attenuation

