Amtery

Quick Delivery. Reliable Quality. Instant Service

AT40008B-90-UE

4 - Channel Programmable Attenuator
50 - 8000 MHz, 90 dB, 0.25 dB Step

RoHS Compliant

Insertion loss compensated

USB Type-C interface

GUI and API control

Electrical Specifications (Preliminary)

Parameter		Unit	Conditions	Min.	Typ.	Max.
Frequency		MHz		50		8000
Attenuation Range		dB				90
Step		dB			0.25	
Insertion Loss (I.L.)		dB	50 - 4000MHz @ 0 dB Att.		7.5	9
			4000 - 8000MHz @ 0 dB Att.		12.1	14
Attenuation Accuracy	**Compensate I.L. "OFF"[1]**	dB	0 - 30 dB Att.		±0.6	
			30 - 60 dB Att.		±1.2	
			60 - 90 dB Att.		±1.8	
	Compensate I.L. "ON"[2]		0 - 30 dB Att.		±0.5	
			30 - 60 dB Att.		±1	
			60 - 90 dB Att.		±1.5	
Isolation (between channels)		dB			90[3] 110[4]	
Switching time		µs	50% CTRL to 90% or 10% RF		1.1	
Input Operation Power		dBm				28
IP3 Input		dBm	0 dB Att.		50	
IP1dB		dBm	0 dB Att.		27	
VSWR		:1	Input @ 0 dB Att.		1.8	
			Output @ 0 dB Att.		1.8	
Interface			USB Type-C			

Operated in 50Ω system, 25°C

[1] Compensate Insertion Loss “OFF”: This attenuation is relative to insertion loss. S_{21} = attenuation setting + insertion loss.

[2] Compensate Insertion Loss “ON”: The absolute attenuation including insertion loss. S_{21} = attenuation setting.

[3] Input-to-adjacent-output channel isolation @ 0 dB and 90 dB attenuation setting.

[4] Input-to-adjacent-output channel isolation @ 90 dB and 90 dB attenuation setting..

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AT80008B-90-UE

8 - Channel Programmable Attenuator
50 - 8000 MHz, 90 dB, 0.25 dB Step

RoHS Compliant

Insertion loss compensated

USB Type-C interface

GUI and API control

Electrical Specifications (Preliminary)

Parameter		Unit	Conditions	Min.	Typ.		Max.
Frequency		MHz		50			8000
Attenuation Range		dB					90
Step		dB			0.25		
Insertion Loss (I.L.)		dB	50 - 4000MHz @ 0 dB Att.		7.5		9
			4000 - 8000MHz @ 0 dB Att.		12.1		14
Attenuation Accuracy	**Compensate I.L. "OFF"[1]**	dB	0 - 30 dB Att.		±0.6		
			30 - 60 dB Att.		±1.2		
			60 - 90 dB Att.		±1.8		
	Compensate I.L. "ON"[2]		0 - 30 dB Att.		±0.5		
			30 - 60 dB Att.		±1		
			60 - 90 dB Att.		±1.5		
Isolation (between channels)		dB			90[3] 110[4]		
Switching time		µs	50% CTRL to 90% or 10% RF		1.1		
Input Operation Power		dBm					28
IP3 Input		dBm	0 dB Att.		50		
IP1dB		dBm	0 dB Att.		27		
VSWR		:1	Input @ 0 dB Att.		1.8		
			Output @ 0 dB Att.		1.8		
Interface			USB Type-C				

Operated in 50Ω system, 25°C

[1] Compensate Insertion Loss “OFF”: This attenuation is relative to insertion loss. S_{21} = attenuation setting + insertion loss.

[2] Compensate Insertion Loss “ON”: The absolute attenuation including insertion loss. S_{21} = attenuation setting.

[3] Input-to-adjacent-output channel isolation @ 0 dB and 90 dB attenuation setting.

[4] Input-to-adjacent-output channel isolation @ 90 dB and 90 dB attenuation setting.

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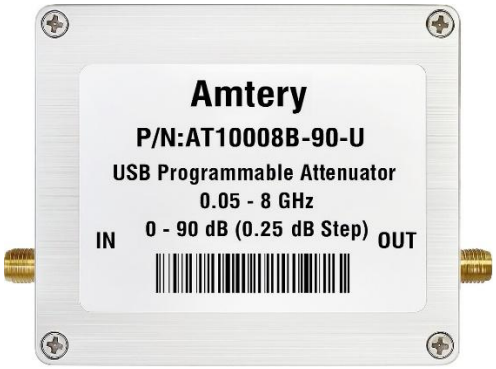
AT10008B-90-U

Programmable Attenuator 50 - 8000 MHz, 90 dB, 0.25 dB Step



Insertion loss compensated

USB Type-C interface

GUI and API control

RoHS Compliant

Electrical Specifications

Parameter		Conditions	Min.	Typ.	Max.	Unit
Frequency			50		8000	MHz
Attenuation Range					90	dB
Step				0.25		dB
Insertion Loss (I.L.)		50 - 4000MHz @ 0 dB Att.		7.5	9	dB
		4000 - 8000MHz @ 0 dB Att.		12.1	14	
Attenuation Accuracy	Compensate I.L. "OFF"[1]	0 - 30 dB Att.		-0.4 - +0.8		dB
		30 - 60 dB Att.		-0.8 - +1.2		
		60 - 90 dB Att.		±1.9		
	Compensate I.L. "ON"[2]	0 - 30 dB Att.		±0.4		
		30 - 60 dB Att.		±0.8		
		60 - 90 dB Att.		±1.5		
Input Operation Power					28	dBm
IP3 Input		0 dB Att.		50		dBm
IP1dB		0 dB Att.		27		dBm
VSWR		Input @ 0 dB Att.		1.8		:1
		Output @ 0 dB Att.		1.8		
Interface		USB Type-C				

Operated in 50Ω system, 25°C

[1] Compensate Insertion Loss “OFF”: This attenuation is relative to insertion loss. S_{21} = attenuation setting + insertion loss.

[2] Compensate Insertion Loss “ON”: The absolute attenuation including insertion loss. S_{21} = attenuation setting.

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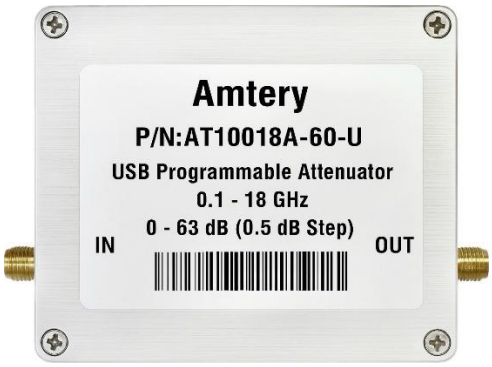
AT10018A-60-U

Programmable Attenuator 100 - 18000 MHz
63 dB, 0.5 dB Step



RoHS Compliant

Insertion loss compensated

USB Type-C interface

GUI and API control

Electrical Specifications

Parameter		Unit	Frequency (MHz)	Conditions	Min.	Typ.	Max.
Attenuation Range		dB	100 - 18000		0		63
Step		dB				0.5	
Insertion Loss (I.L.)		dB		100 - 8000MHz @ 0 dB Atn.		4.5	6
				8000 - 18000MHz @ 0 dB Atn.		7.5	9.5
Attenuation Accuracy	Compensate I.L. "OFF"[1]	dB		@ 0 - 20 dB Atn.		-0.5 - +0.25	
				@ 20 - 40 dB Atn.		-0.8 - +0.4	
				@ 40 - 63 dB Atn.		-1.5 - +0.5	
	Compensate I.L. "ON"[2]			@ 0 - 20 dB Atn.		±0.4	
				@ 20 - 40 dB Atn.		±0.7	
				@ 40 - 63 dB Atn.		±1.3	
Input Operation Power		dBm					25
IP3 Input		dBm		@ 0 dB setting		47	
IP1dB		dBm		@ 0 dB setting		30	
VSWR		:1		Input @ 0 dB Atn.		1.9	
				Output @ 0 dB Atn.		1.8	
Supply Voltage Range (Vdd)		V		via USB type-C	4.75	5	5.25
USB Current Draw (Idd)		mA		Vdd = 5V		62	

Operated in 50Ω system, 25°C

[1] Compensate Insertion Loss “OFF”: This attenuation is relative to insertion loss. S_{21} = attenuation setting + insertion loss.

[2] Compensate Insertion Loss “ON”: The absolute attenuation including insertion loss. S_{21} = attenuation setting.