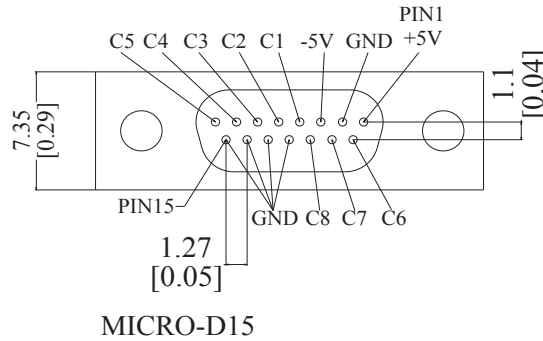
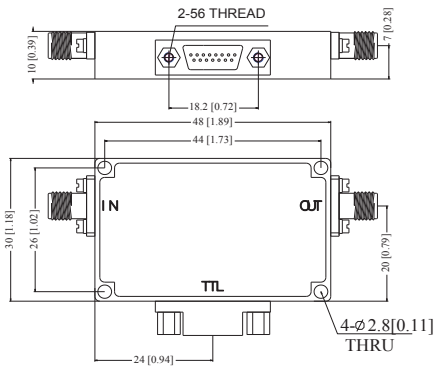


KAT177808



Absorptive Digital Control Attenuator 4-18GHz



True Table

Control Voltage Input								Attenuation state
C8	C7	C6	C5	C4	C3	C2	C1	Reference IL
1	1	1	1	1	1	1	1	0.5dB
1	1	1	1	1	1	0	1	1dB
1	1	1	1	1	0	1	1	2dB
1	1	1	1	0	1	1	1	4dB
1	1	1	0	1	1	1	1	8dB
1	1	0	1	1	1	1	1	16dB
1	0	1	1	1	1	1	1	32dB
0	1	1	1	1	1	1	1	64dB
0	0	0	0	0	0	0	0	127.5dB

All Dimensions in mm (inches)

Parameters	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	4-12		12-18		GHz		
Attenuation Range			127.5			127.5	dB
Attenuation <i>Flatness</i> : (Referenced to Insertion Loss)		±3			±5		dB
Control Bits			8			8	Bit
Control Step size		0.5			0.5		dB
Insertion Loss		5.5	7		7.5	9	dB
Insertion Loss Temperature Coefficient		0.01			0.01		dB/ °C
Input VSWR (All Atten. States)		1.5	1.8		1.5	2	
Output VSWR (All Atten. States)		1.5	1.8		1.5	2	
Input Power for 0.1 dB Compression		25			25		dBm
IP3 Input		50			50		dBm
Switching Speed			100			100	ns
Weight	1.06					ounces	
Impedance	50					Ω	
Biasing (+5V/-5V)	140/140					mA	
Input /Output Connector	SMA-Female						
Control PIN	MICRO -D15						
Finishing	Gold Plating						
Material	Aluminum						
Seal	Hermetically Sealed (optional)						

Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
TTL Control Voltage	0~0.8V/2~5V
Operating Temperature °C	-45 ~ +85
Storage Temperature °C	-50 ~ +125

Environment specifications

Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C
Altitude	30,000 ft. (Epoxy Seal Controlled environment)
(Optional)	60,000 ft 1.0psi min (Hermetically Seal Un -controlled environment)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msc half sin wave,3 axis both directions