

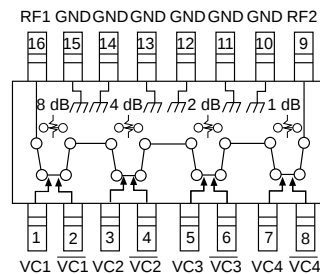
Digital Attenuator, 30 dB, 4-Bit**AT-220**

V3.00

Absolute Maximum Ratings¹

Parameter	Absolute Maximum
Max. Input Power	+27 dBm
50 MHz	+34 dBm
500-2000 MHz	+5V, -8.5V
Control Voltage	-40°C to +85°C
Operating Temperature	-65°C to +150°C
Storage Temperature	

1. Operation of this device above any one of these parameters may cause permanent damage.

Functional Schematic**Pin Configuration**

Pin	Description	Pin No.	Description
1	VC1	9	RF2
2	$\overline{VC1}$	10	GND
3	VC2	11	GND
4	$\overline{VC2}$	12	GND
5	VC3	13	GND
6	$\overline{VC3}$	14	GND
7	VC4	15	GND
8	$\overline{VC4}$	16	RF1

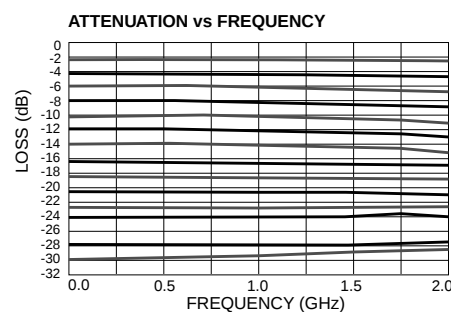
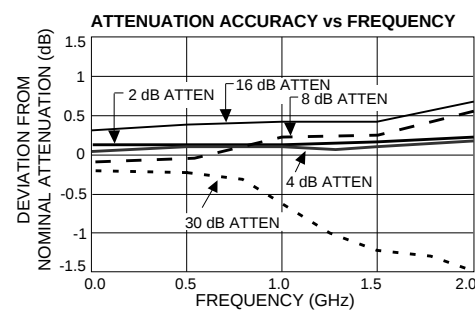
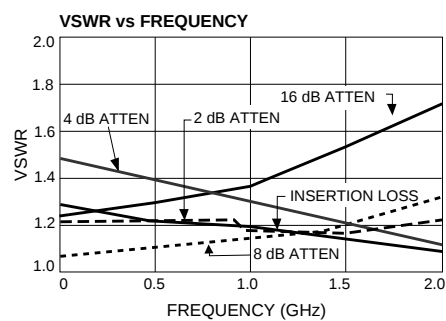
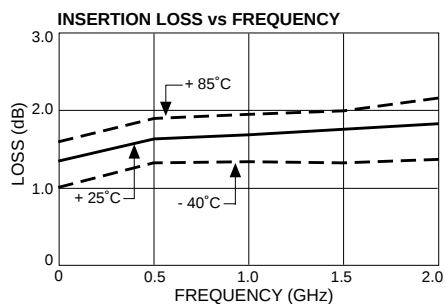
Truth Table

Control Inputs								Attenuation (dB)
$\overline{VC4}$	VC4	$\overline{VC3}$	VC3	$\overline{VC2}$	VC2	$\overline{VC1}$	VC1	
1	0	1	0	1	0	1	0	Reference
0	1	1	0	1	0	1	0	2 dB
1	0	0	1	1	0	1	0	4 dB
1	0	1	0	0	1	1	0	8 dB
1	0	1	0	1	0	0	1	16 dB
0	1	0	1	0	1	0	1	30 dB

"0" = Vin Low, Vin Low = 0V, "1" = Vin High, Vin High = -5V

"0" = 0 to -0.2V @ 20μA Max

"1" = -5V @ 10 μA typ to -8V @ 200 μA Max

Typical Performance**2**

Specifications Subject to Change Without Notice.

M/A-COM, Inc.

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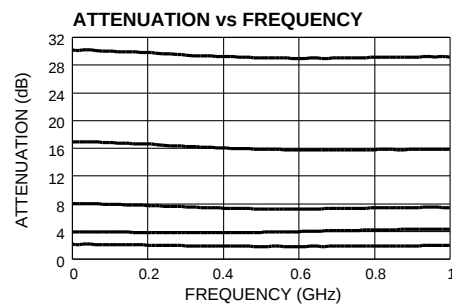
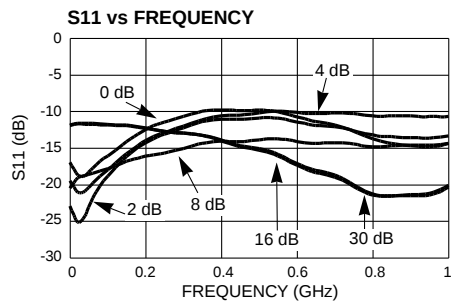
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AT-220

V3.00

Swept Data Characterized in 75 Ohms



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