



Series SA-011 Switched-Bit Attenuators 100-1000 MHz Specifications

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Application Notes for [Microwave Attenuators](#)

PERFORMANCE CHARACTERISTICS

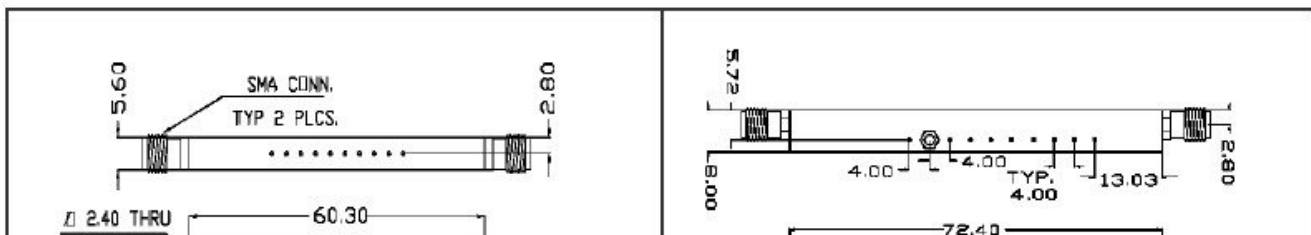
MODEL	SA-011-7- 05	SA-011-8-025
Frequency Range, min (MHz)	100-1000 ⁽¹⁾	100-1000 ⁽¹⁾
Attenuation Range, min (dB)	63.5 ⁽²⁾	63.75 ⁽²⁾
Insertion Loss, max (dB)	6.0	6.0
VSWR, max	1.4:1	1.8:1
Number of Bits	7	8
LSB, max (dB)	0.5	0.25
Monotonicity	Guaranteed	
Accuracy of Attenuation	± 0.125 dB @ 0.5 dB ± 2% @ 1 to 63.5 dB	± 0.125 dB @ 0.5 dB ± 2% @ 1 to 63.5 dB
Attenuation Flatness, max (dB)	± 1.5	± 1.5
Power Handling, max (dBm)	20	20
Switching Time, max (nsec)	20	500
Switch Rate, max (MHz)	0.5	0.5
Control Logic	'1' = I.Loss '0' = Att.	'1' = I.Loss '0' = Att.
Control Input	TRUE TTL GATE	
Power Supply Requirements	+5V ± 2% @ 400 mA	+5V 2% @ 450 mA
Environmental Conditions		
Package Type	DC 2-11	DC 18

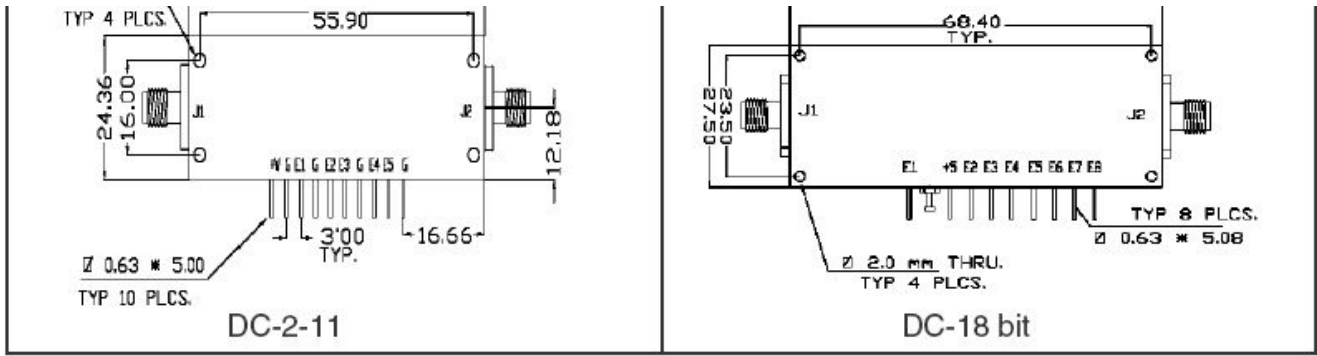
NOTES

1. Performance can be optimized for a narrower bandwidth
2. Attenuation range can be customized.

PIN FUNCTIONS		
PIN Designations	SA-011-7- 05	SA-011-8-025
E1	0.5 dB	0.25 dB
E2	1.0 dB	0.5 dB
E3	2.0 dB	1.0 dB
E4	4.0 dB	2.0 dB
E5	8.0 dB	4.0 dB
E6	16.0 dB	8.0 dB
E7	32.0 dB	16.0 dB
E8	-	32.0 dB
+ V	+ 5V	+ 5V
G	GND	GND

PACKAGE TYPE & DIMENSIONS





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