

PRODUCT DATA SHEET

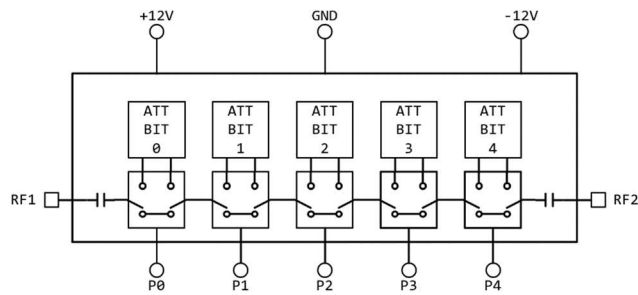
RCT0067 Digital Variable Attenuator

by R. A. Wood Associates

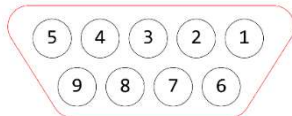
Introduction

The RCT0067 is a 5-Bit wideband digital variable attenuator spanning 100<Hz to 20GHz, with a +/-12VDC supply voltage. Two attenuation range options are provided; 15.5dB (G1) and 31dB (G2).

Specification

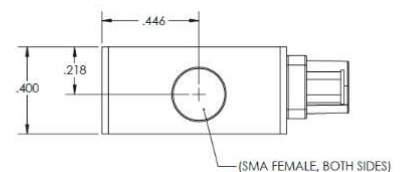
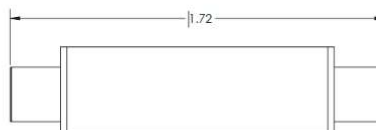
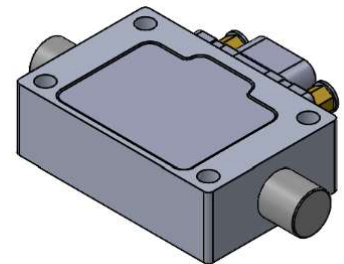
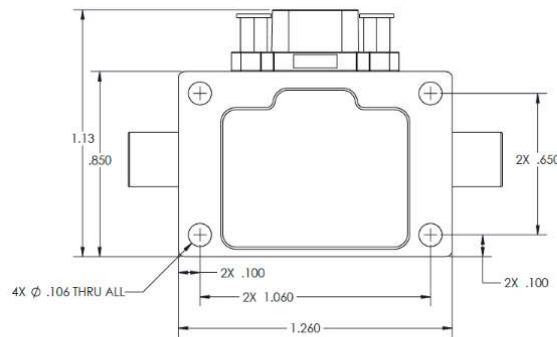


PARAMETER	PERFORMANCE
RF FREQUENCY	0.1-20 GHz
ATTENUATION	0-15 dB, 0.5 dB Step (G1) 0-31 dB, 1.0 dB Step (G2)
LOSS (TYP)	4.5 dB @10GHz
IP1DB (TYP)	22-26dBm (G1) 20-24dBm (G2)
IIP3 (TYP)	40dBm
ATTEN. ACCURACY (TYP)	±0.5 dB (G1) ±1.0 dB (G2)
RETURN LOSS (TYP)	12dB
MAX RATINGS	PERFORMANCE
VOLTAGE (VDD)	+3.8V to +20V
VOLTAGE (VSS)	-3.8V to -20V
RF INPUT POWER	+27 dBm
OPERATING TEMP.	-40 TO 85 °C
STORAGE TEMP.	-65 TO 150 °C

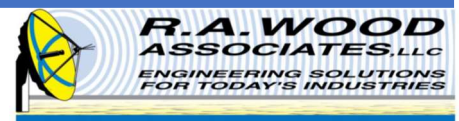


MicroD Connector
Nor Comp Inc.
(www.norcomp.net)
P/N: 580-M09-203L002

PIN	NAME
1	BIT 5
2	BIT 4
3	BIT 3
4	BIT 2
5	BIT 1
6	+VDD
7	GND
8	NC
9	-VSS

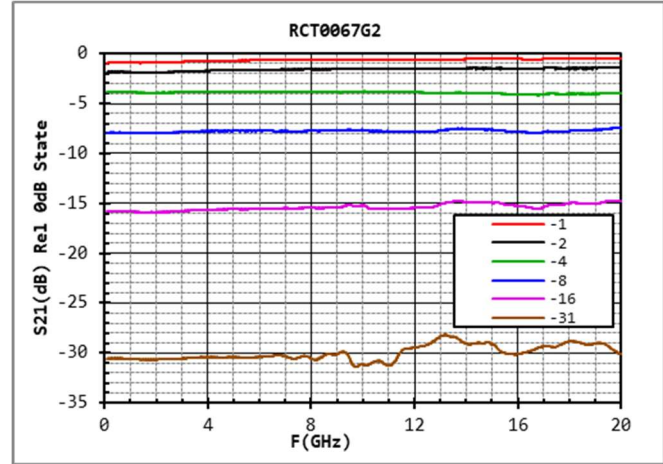
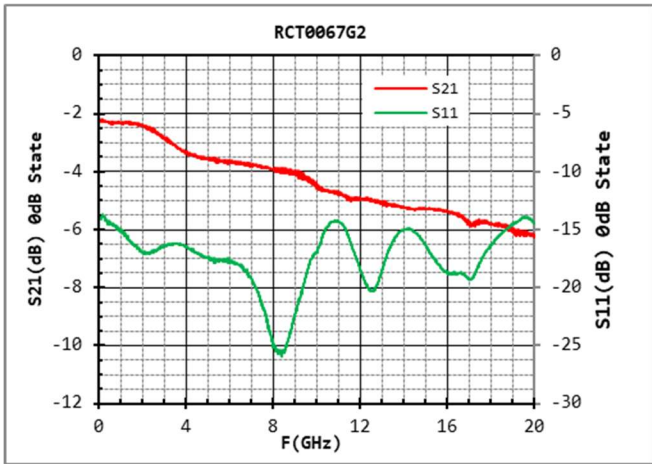
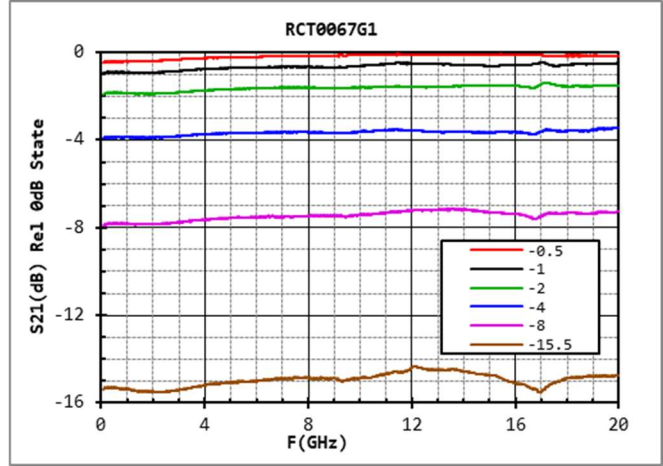
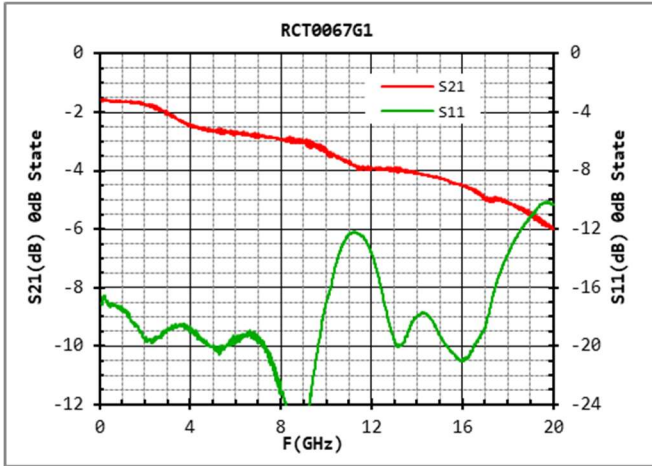


Contact us for quotation or technical inquiry today:
rawood@rawood.com or (315) 735-4217



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Logic Table

MSB Bit 4 (P4)	Bit 3 (P3)	Bit 2 (P2)	Bit 1 (P1)	LSB Bit 0 (P0)	G1 Atten. State (dB)	G2 Atten. State (dB)
1	1	1	1	1	0	0
1	1	1	1	0	0.5	1
1	1	1	0	1	1	2
1	1	0	1	1	2	4
1	0	1	1	1	4	8
0	1	1	1	1	8	16
0	0	0	0	0	15.5	31
8	4	2	1	0.5	← G1: Bit dB Value	
16	8	4	2	1	← G2: Bit dB Value	

Note: G2 is offered in Active High configuration as an option

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