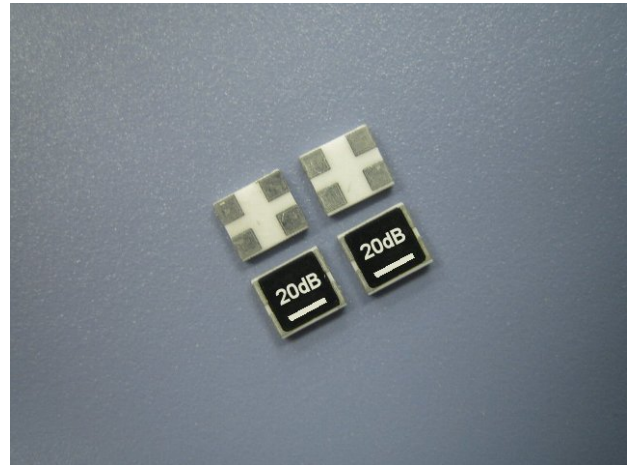
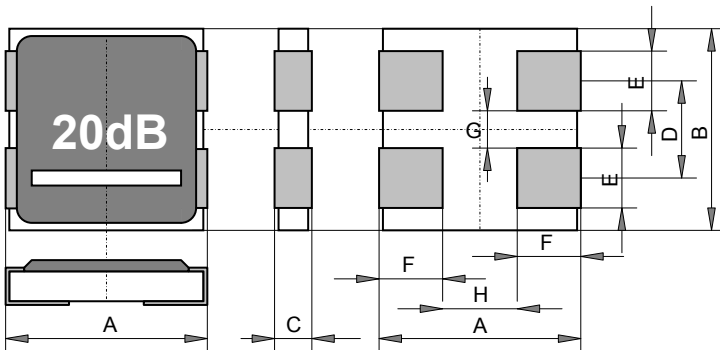


RF CHIP ATTENUATOR, RFA001 010



Features and Applications

2.5GHz-1W surface mount small 4mmx4mm size, attenuators of 50ohm characteristic impedance. RFA001 has 2.5GHz-1W power rating and high durability against pulse / EMI accidents in small signal applications. Long life and temperature stability of thin film technology realize better performance at a temperature range from -55C to +155C. Applications include impedance matching, gain control circuits, isolation circuits of power boost amplifiers at GHz, loss compensation of transmission line of data communication systems, detecting signal control of ATE-LSI test system-circuit board functional test systems, industrial measurement electronics, medical scientific electronics and miscellaneous communication systems.



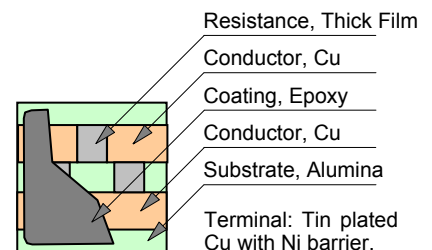
Symbol	mm	inch
A	4.0 /-0.2	0.157+/-0.008
B	4.0+/-0.2	0.157+/-0.008
C	(0.65)	(0.026)
D	2.0+/-0.1	0.079+/-0.004
E	(1.2)	(0.047)
F	1.2+/-0.1	0.047+/-0.004
G	0.8+/-0.1	0.032+/-0.004
H	1.6+/-0.1	0.063+/-0.004

Specifications and Performances

Attenuation	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 40* dB
Tolerance of Attenuation (at DC)	1-9dB:±0.3dB, 10dB:±0.5dB, 20dB:±1dB
Frequency Range	0-10dB: DC- 2.5GHz, 20dB: DC-600MHz
Volt Standing Wave Ratio	<1.2(0-10dB, DC-2.5GHz), (20dB, 0.6GHz)
Rating Power	1W
Characteristic Impedance	50 ohm
Tolerance of Impedance (at DC)	±2 ohm

(* Attenuation 40dB is optional, please mail to info@nikkohm.co.jp

Structure and Material



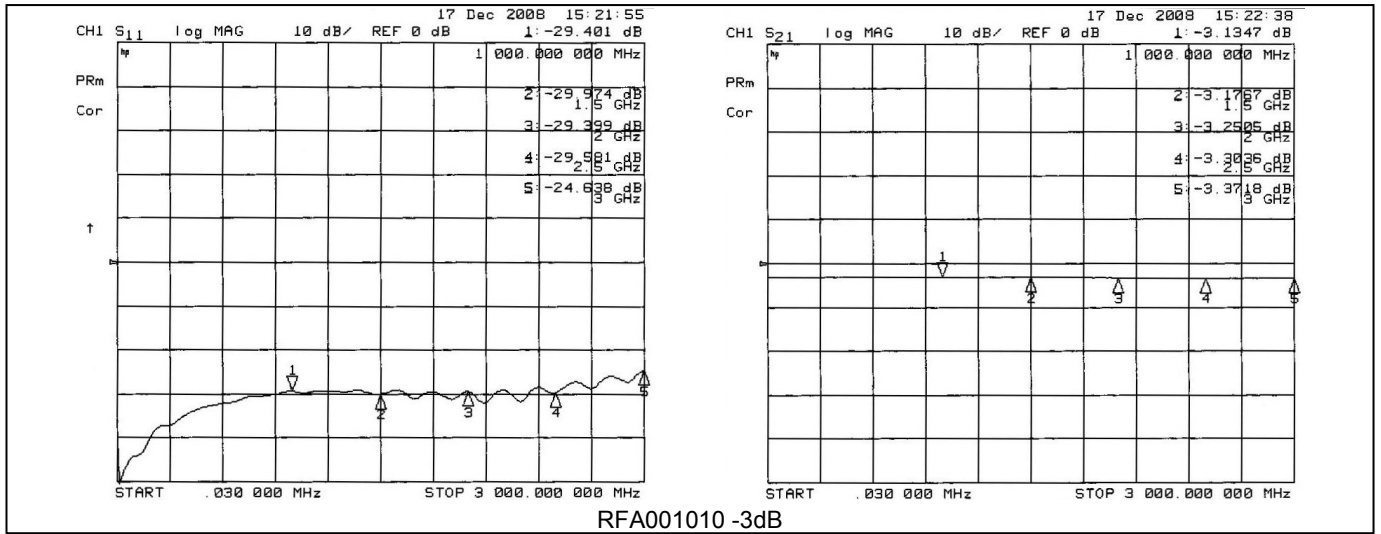
Ordering Information

Type	Attenuation	Rating Power	
RFA001010	6dB	Z00	Bulk Tape reel
RFA001010	0, 1, 2, 3, 4dB	Z00	
	5, 6, 7, 8, 9 dB	Z01	
	10, 20, 40 dB		

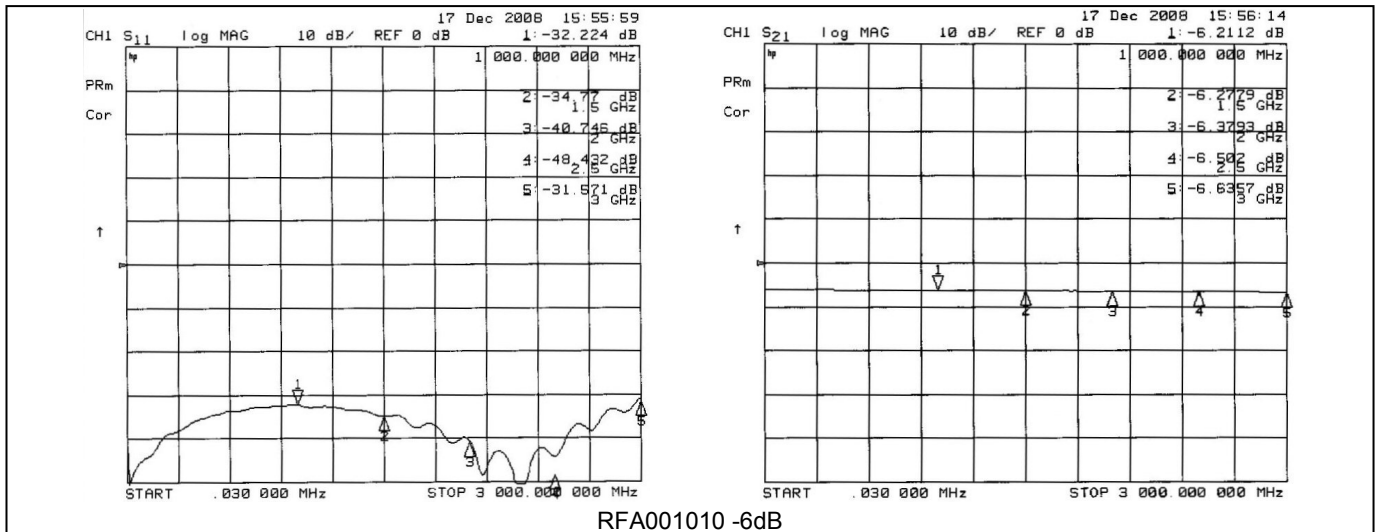
RF CHIP ATTENUATOR

RFA001 010

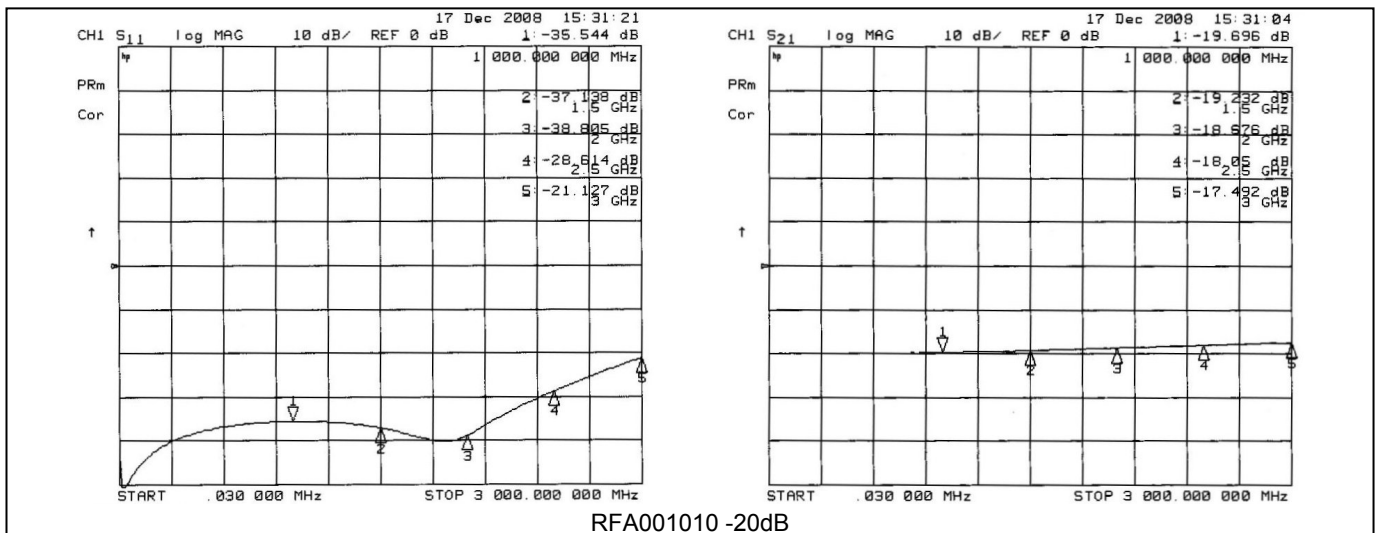
Typical S11-S21



RFA001010 -3dB



RFA001010 -6dB



RFA001010 -20dB

Transformation: $SWR = \frac{1+|\Gamma|}{1-|\Gamma|}$ $|\Gamma| = 10^{\frac{S11}{20}}$ $|\Gamma| = \frac{SWR-1}{SWR+1}$ $S11 = -(-20 \log |\Gamma|)$