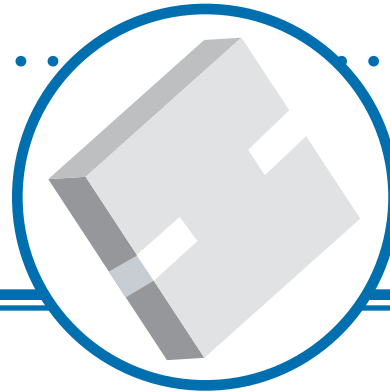


High Frequency Surface Mount Attenuators

RFAXXX-0 Series

- RoHS compliant
- Power dissipation up to 150W
- High frequency operation up to 3GHz



The RFAXXX-0 series power attenuator has a low VSWR from DC to 3GHz. High frequency performance combined with high power dissipation make this an ideal RF power attenuator. Typical applications are RF and microwave power amplifiers, RF transmitters, receivers and meters where a reduction in power is needed while maintaining transmission line characteristic impedances.

Electrical Data

		RFA100-0xx	RFA150-0xx
Power Rating @70°C		100W (Heatsinked)	150W (Heatsinked)
Impedance		50Ω	
Frequency Range		DC - 3GHz	
Operating Temperature Range		-55°C to +155°C	
Attenuation		20dB, 30dB	
Attenuation Tolerance at DC		±0.4 dB	
Terminations	Types 010, 020, 030	Tin (Sn) plated copper	
	Types 012, 022, 032	Gold (Au) plated copper	

General Note

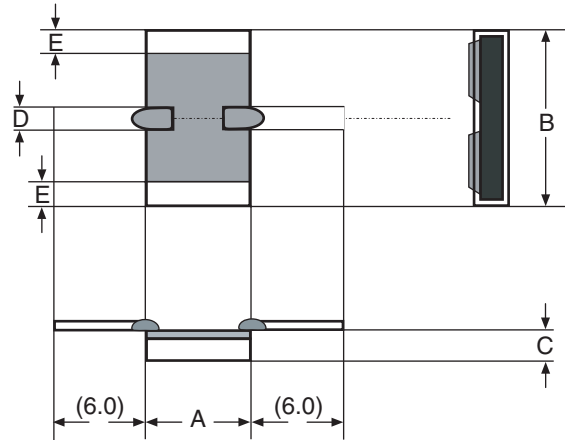
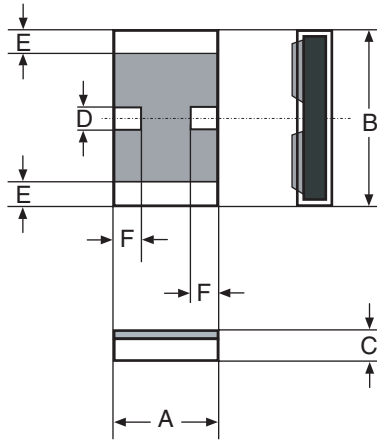
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

High Frequency Surface Mount Attenuators

Physical Data

RFA100 010, RFA100 020, RFA100 030
RFA150 010, RFA150 020, RFA150 030

RFA100 012, RFA100 022, RFA100 032
RFA150 012, RFA150 022, RFA150 032



Dimensions (mm)

Model and Type	A	B	C	D	E	F*
RFA100 010 / 012	5.84 ± 0.15	8.89 ± 0.15	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.5)
RFA100 020 / 022	5.84 ± 0.25	8.89 ± 0.25	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.05)
RFA100 030 / 032	5.72 ± 0.25	8.90 ± 0.25	1.1 max	1.1 ± 0.3	0.3 ± 0.1	(1.1)
RFA150 010 / 012	7.62 ± 0.15	11.43 ± 0.15	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.5)
RFA150 020 / 022	7.62 ± 0.25	11.43 ± 0.25	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.05)
RFA150 030 / 032	6.35 ± 0.25	9.52 ± 0.25	1.1 max	1.1 ± 0.3	0.3 ± 0.1	(1.1)

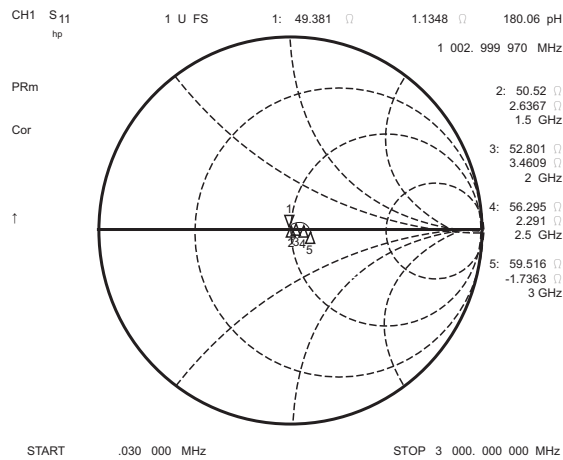
*Note: Dimension F does not apply to types 012, 022 and 032.

High Frequency Surface Mount Attenuators

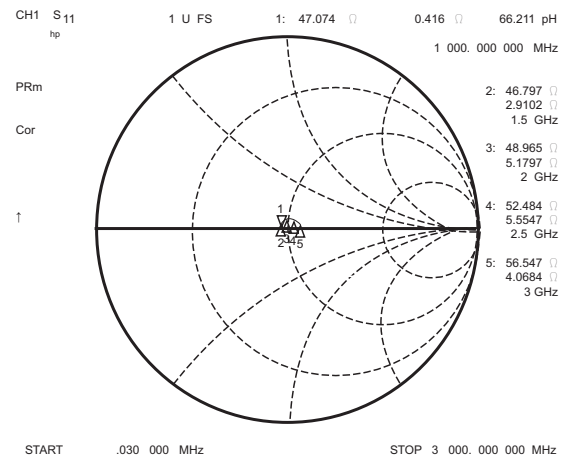


Frequency Performance Data

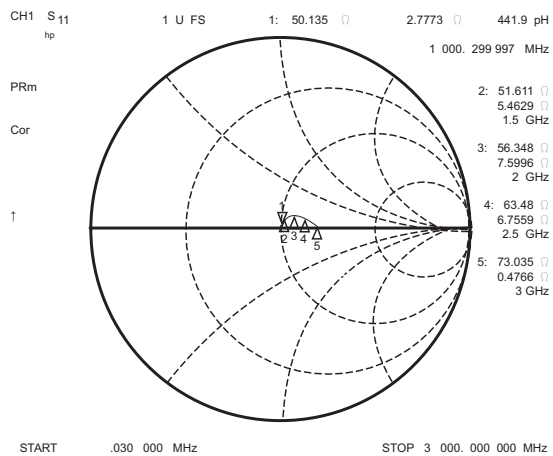
RFA100 030 20DB (S11) Impedance



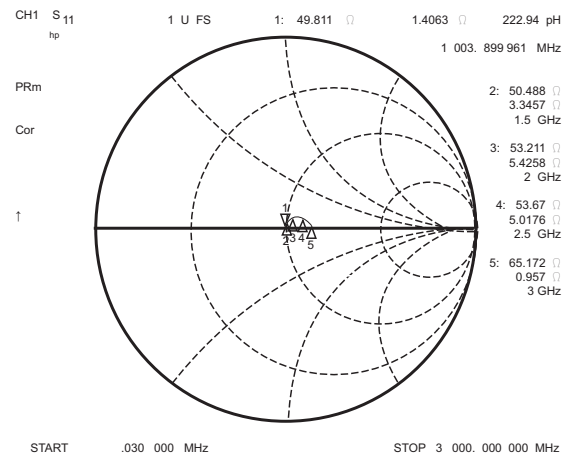
RFA100 030 30DB (S11) Impedance



RFA150 030 20DB Impedance



RFA150 030 30DB Impedance



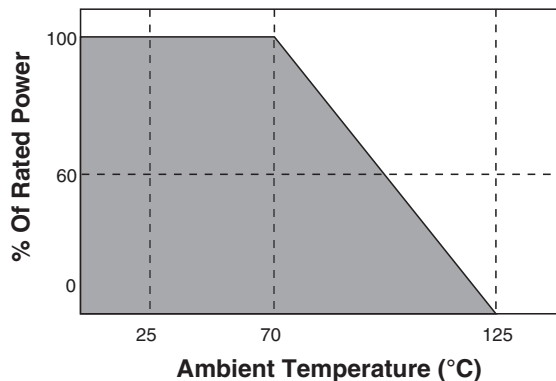
High Frequency Surface Mount Attenuators



Environmental Data

	Test Condition	Maximum
Load Life	1000 Hours, 70°C	±1.0%
Moisture Load Life	1000 Hours, 40°C 95% RH	±1.0%
Solder Heat Resistance	350°C, 3 sec.	±1.0%
Solderability		>95% coverage

Power Derating Curve



Ordering Data

Prefix **HFR** - **RFA100LF** - **010** - **20dB**
Model
 RFA100LF; RFA150LF
Type
 010; 020; 030 = Tin plated copper pads
 012; 022; 032 = Tin plated copper-alloy beam leads
Attenuation
 20dB; 30dB