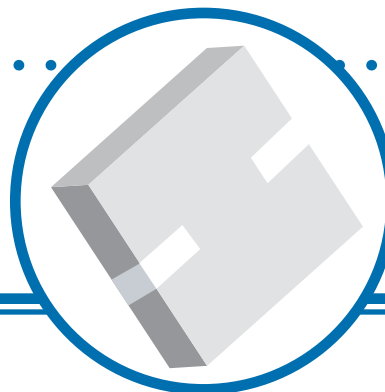


High Frequency Surface Mount Attenuators

RFAXXX-0 Series

- RoHS Compliant
- Power dissipation to 150W
- High frequency operation to 3GHz
- Flanged Package for heat sink mounting



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

	RFA100-0	RFA150-0
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	Gold plated copper	

General Note

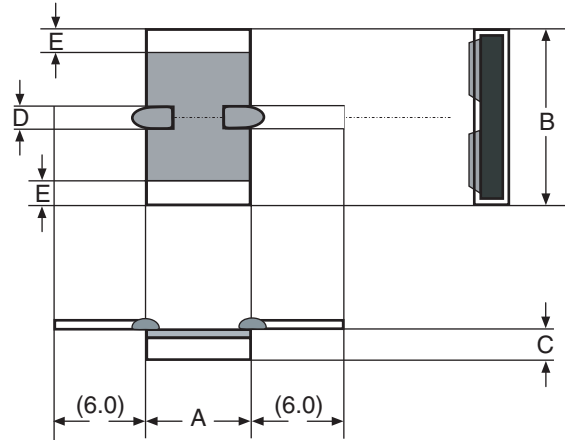
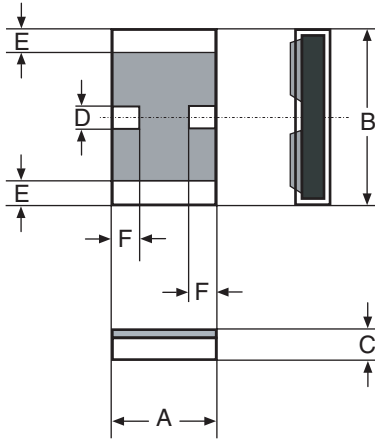
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

High Frequency Surface Mount Attenuators

Physical Data

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

RFA100 011, RFA100 021, RFA100 031
RFA150 011, RFA150 021, RFA150 031



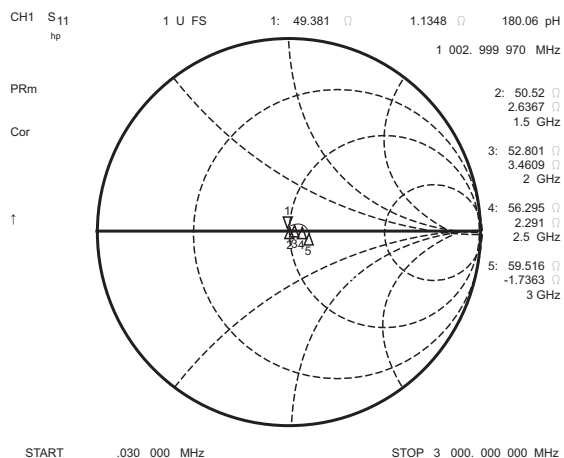
Dimensions (mm)

Model	A	B	C	D	E	F
RFA100 010	5.84 ± 0.15	8.89 ± 0.15	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.5)
RFA100 020	5.84 ± 0.25	8.89 ± 0.25	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.05)
RFA100 030	5.72 ± 0.25	8.90 ± 0.25	1.1 max	1.1 ± 0.3	0.3 ± 0.1	(1.1)
RFA150 010	7.62 ± 0.15	11.43 ± 0.15	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.5)
RFA150 020	7.62 ± 0.25	11.43 ± 0.25	1.1 max	1.0 ± 0.3	0.3 ± 0.1	(1.05)
RFA150 030	6.35 ± 0.25	9.52 ± 0.25	1.1 max	1.1 ± 0.3	0.3 ± 0.1	(1.1)
RFA100 031	5.72 ± 0.25	8.90 ± 0.25	1.1 max	1.0 ± 0.3	0.3 ± 0.1	--
RFA150 031	6.35 ± 0.25	9.52 ± 0.25	1.1 max	1.0 ± 0.3	0.3 ± 0.1	--

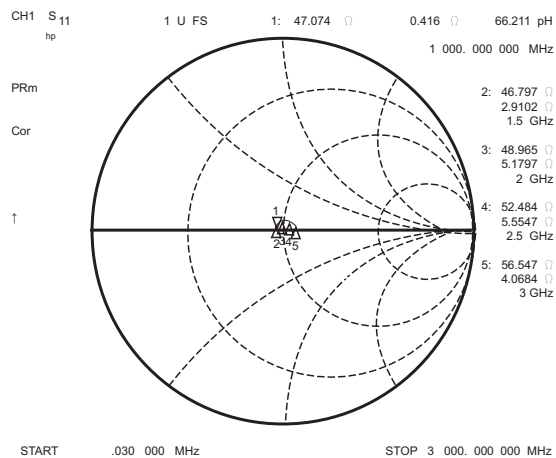
High Frequency Surface Mount Attenuators

Frequency Performance Data

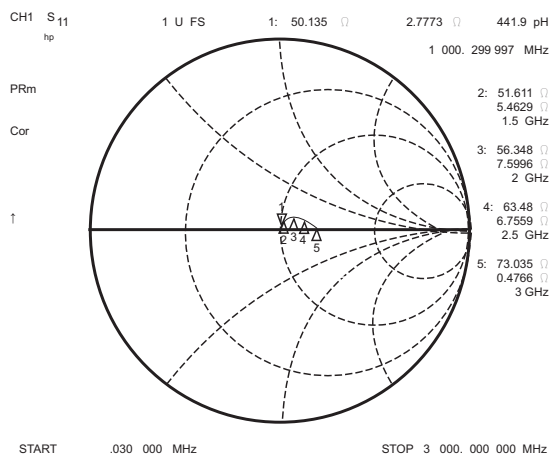
RFA100 030 20DB (S11) Impedance



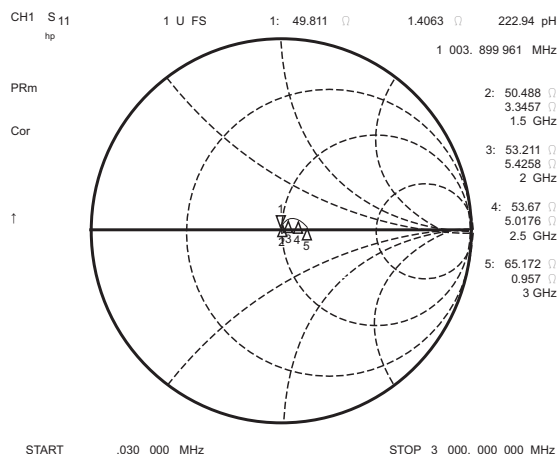
RFA100 030 30DB (S11) Impedance



RFA150 030 20DB Impedance



RFA150 030 30DB Impedance

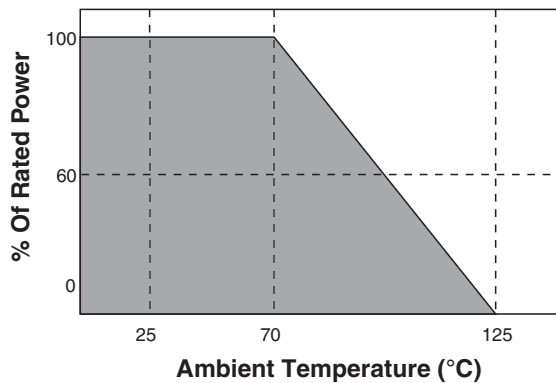


High Frequency Surface Mount Attenuators

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** - **RFA100** - **010LF** - **C50 OHM** - **F**

Model
RFA100; RFA150

Type
010LF

Resistance
C50 OHM

Tolerance
F = ±1%