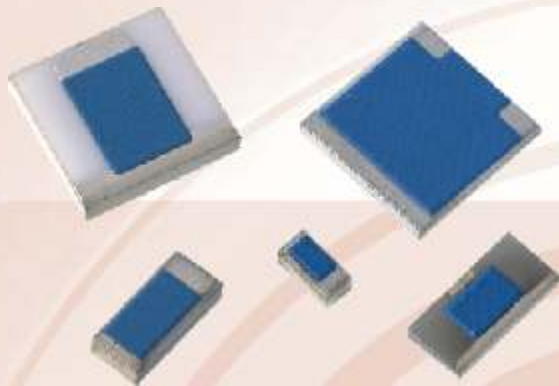


SMT Termination and Attenuator



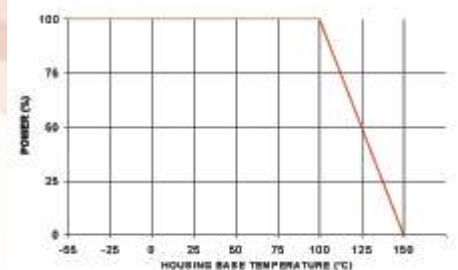
Radiall Microwave product line is pleased to introduce SMT resistive load and attenuator, suitable for surface mount applications. The small size and low cost components can be used in many applications such as coupler loads, drop-in isolators or other wireless applications...

The product is designed for 50 Ω application for wireless band up to 3 GHz and also 18 GHz using Al₂O₃ or AlN substrate, power range from 10 Watts to 120 Watts. Packaged in reels for easy circuit integration, thanks to the use of pick and place machines. Soldering operation can be achieved by reflow ovens. Available in standard dimensions offered in the industry, such as 2.54 x 5.08mm, 6.35 x 6.35mm or 6.35 x 9.40mm.

Radiall offers a large connectorized termination and attenuator range. The SMT termination and attenuators broadens our offering in the RF components market.

Characteristics

Impedance	: 50 Ω $\pm$ 5%
Attenuation value	: 3, 6, 10 & 20dB
Temperature range	: -55°C / +150°C
Substrate material	: Al ₂ O ₃ and AlN
Resistive film	: Thick film
Finish	: Polymer film / contacts Pt



AlN Termination

Part number	Packaging	Power (Watts)	Frequency (GHz)	VSWR Max	W	L	H	Wc	Lc
R401220105	100pcs	10	18	1.35	5.08	2.54	0.635	1.3	0.5
R401220102	2000pcs								
R401210105	100pcs	10	3	1.20	2.54	5.08	1.2	2.54	0.5
R401210102	2000pcs								
R401211105	100pcs	20	2.5	1.25	6.35	6.35	1.2	3.1	0.75
R401211102	2000pcs								
R401410105	100pcs	60	2.5	1.20	8.89	5.84	1.0	3.35	0.75
R401410102	2000pcs								
R401411105	100pcs	120	2.5	1.20	6.35	9.4	1.0	1.8	1.0
R401411102	2000pcs								

Al₂O₃ Termination

Part number	Packaging	Power (Watts)	Frequency (GHz)	VSWR Max	W	L	H	Wc	Lc
R401110005	100pcs	2	4	1.20	1.27	2.54	1.0	1.27	0.75
R401110002	2000pcs								
R401210005	100pcs	10	2.5	1.25	6.35	6.35	1.0	3.10	0.75
R401210002	2000pcs								
R401211005	100pcs	30	2.5	1.20	6.35	6.35	1.0	3.17	0.9
R401211002	2000pcs								
R401310005	100pcs	50	2.5	1.20	9.4	6.35	1.0	3.0	0.75
R401310002	2000pcs								

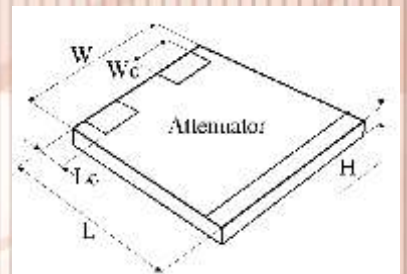
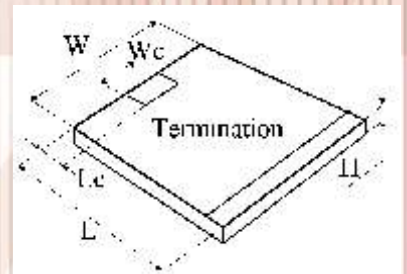
See technical data sheet for more details

Al₂O₃ Attenuator

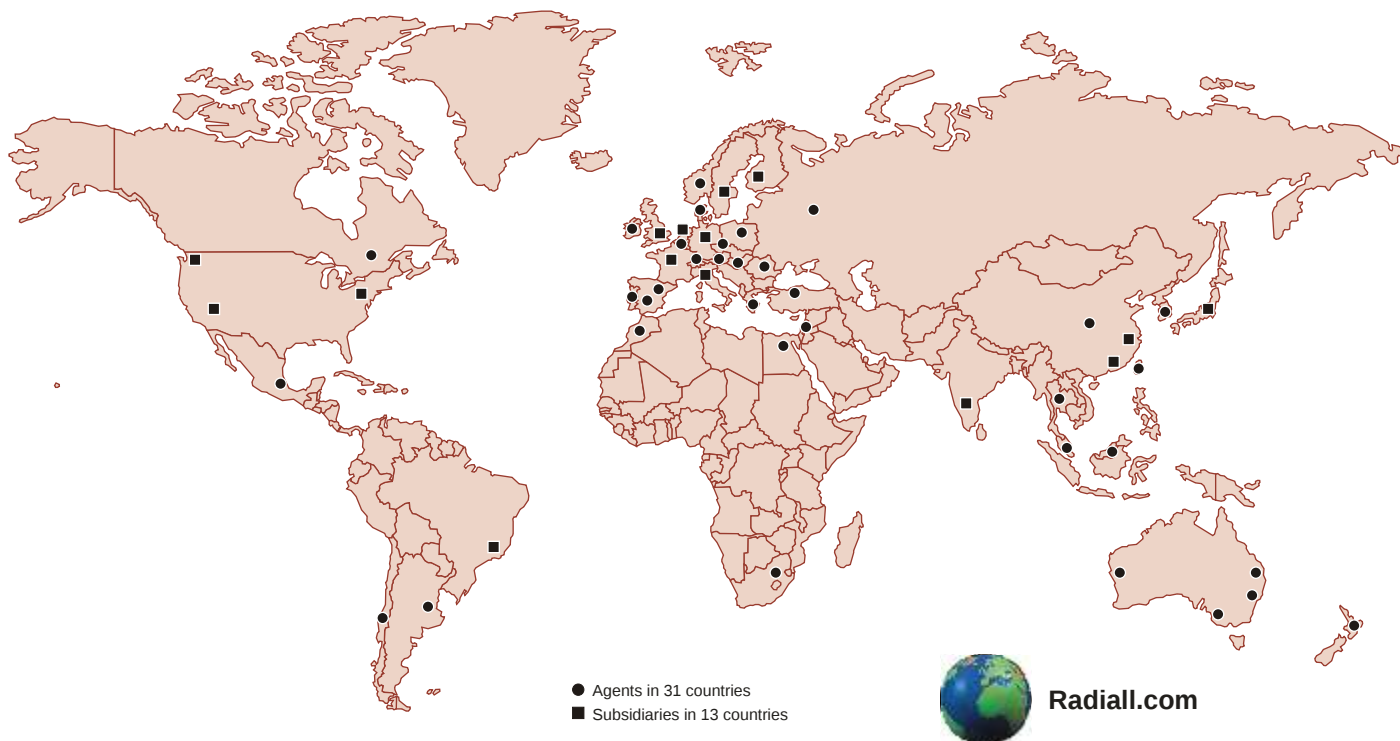
Part number	Packaging	Att (dB)	Power (Watts)	Frequency (GHz)	VSWR Max	W	L	H	Wc	Lc
R421103005	100pcs	3 $\pm$ 0.3	3	2	1.20	1.27	2.54	0.635	2.0	2.1
R421103002	2000pcs									
R421106005	100pcs	6 $\pm$ 0.3	3	2	1.20	6.35	6.35	0.635	2.0	2.1
R421106002	2000pcs									
R421110005	100pcs	10 $\pm$ 0.3	3	2	1.20	6.35	6.35	0.635	2.0	2.1
R421110002	2000pcs									
R421420105*	100pcs	20 $\pm$ 0.5	60	2.2	1.20	9.4	6.35	0.635	0.70	1.8
R421420102	2000pcs									

*AlN product

See technical data sheet for more details



All dimensions are given in mm



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