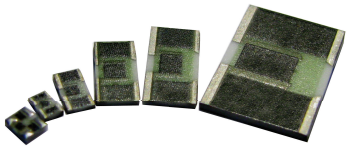
IAX Series Surface Mount Thick Film Attenuator

IAX Series surface mount thick film attenuators are compact, high performance devices especially suited to RF and microwave applications. For bondable terminations, other substrate thicknesses or other sizes and power levels, consult the factory.

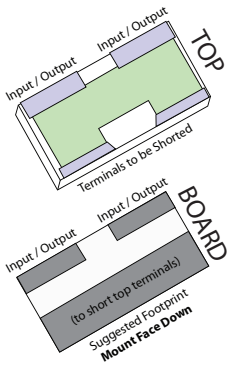


Other case sizes and values are available upon request[1] and are often delivered in half the lead times of most competitors.

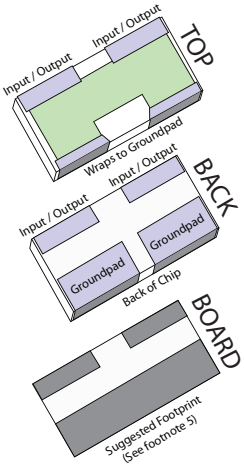
IAX Series

Case	Dimensions	Power Rating[2]
0706	0.075" x 0.060" x 0.020" Max	300mW
0805	0.080" x 0.050" x 0.020" Max	400mW
1206	0.126" x 0.063" x 0.020" Max	1W
2010	0.197" x 0.097" x 0.028" Max	3W
2512	0.248" x 0.126" x 0.028" Max	5W
3725	0.375" x 0.250" x 0.028" Max	15W

SS Style



WA Style



IAX Series Specifications

Impedance:	50Ω Nominal
VSWR (Max)[3]:	1.3:1 up to 18 GHz
DC Attenuation Stability:	.0001dB/ dB/ deg. C[4]
Operating Temperature:	-55 deg. C. to 150 deg. C.
Attachment:	Solder or Epoxy
Architecture:	Thick Film on 96% Alumina (Al_2O_3)

To 70dB

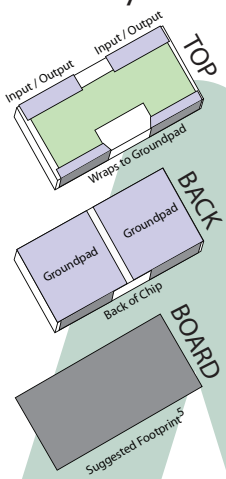
To 0.2dB Accuracy

To 15W Input Power

Attenuation Accuracy (DC)

Increment (dB)	Accuracy
1 - 3	+/- 0.2dB
4 - 13	+/- 0.3dB
13 - 70	+/- 0.5dB

SG Style



SAMPLE P/N: IA3-1206SG02D5

- Prefix for attenuators screened on Alumina
- Termination Metallization:
  - -1 Au (0706SS only) ✓
  - -3 PtAg ✓
  - -C PtAg w/ 62/36/2 Tin/Lead/Silver Solder
- Case Size:
  - 0706 1206 2512
  - 0805 2010 3725
- dB Increment
  - (D0 denotes whole value)
  - -OR-
  - (D5 denotes whole value + .5dB available up to 16.5dB)
- dB Whole Value (00-70)
- Termination Style:
  - -SG Single Wrap to Groundplane
  - -WA Wraparound
  - -SS Single Sided (0706 ONLY)

1 Consult factory
2 With 100 deg. C baseplate
3 Mounted in a matched continuous 50 ohm system
4 Based on TCR and resistor tolerance at DC
5 Groundpads must be shorted during assembly

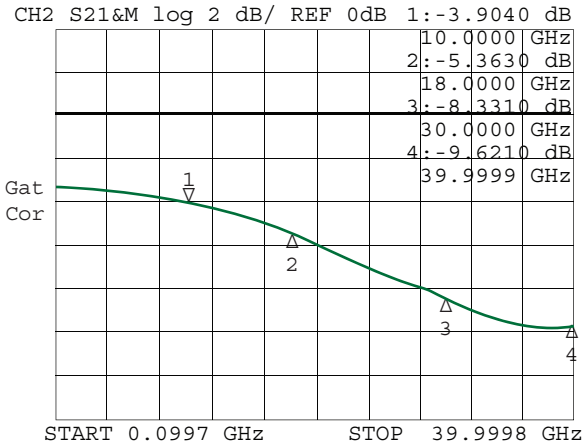
✓ Indicates RoHS Compliance

ims International Manufacturing Services, Inc.
Tel (401) 683-9700
Fax (401) 683-5571
e-mail: ims@ims-resistors.com
http://www.ims-resistors.com

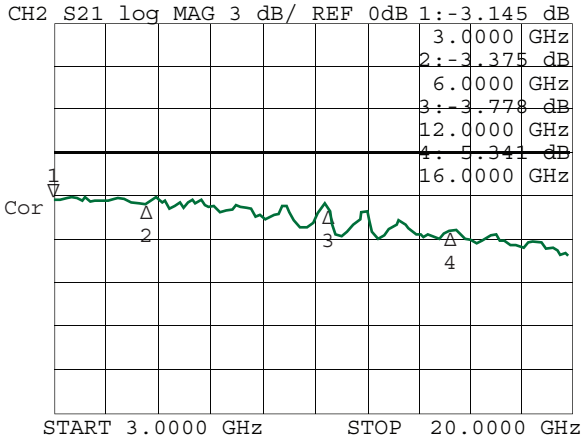
impossible made simple

This datasheet has been downloaded from http://www.digchip.com at this page

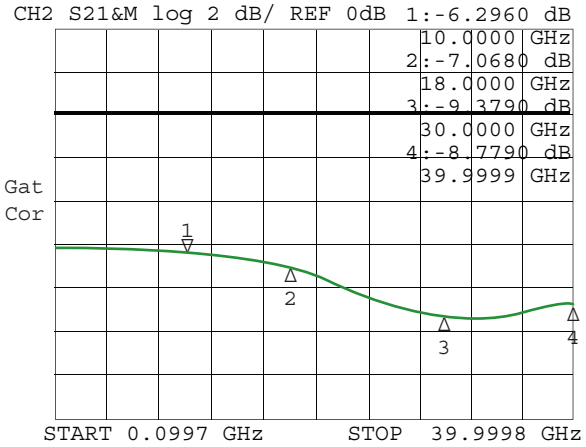
IAX-0706SG03D0 Insertion Loss



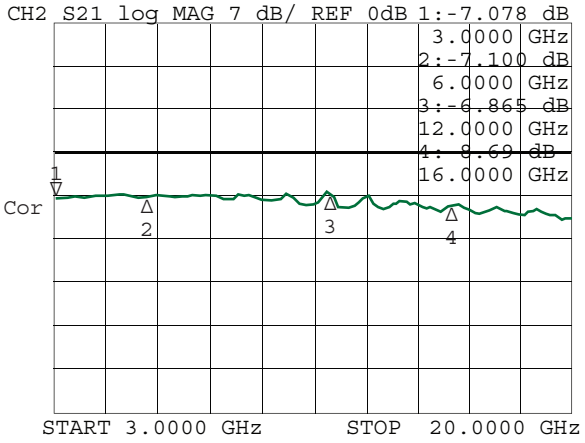
IAX-1206SG03D0 Insertion Loss



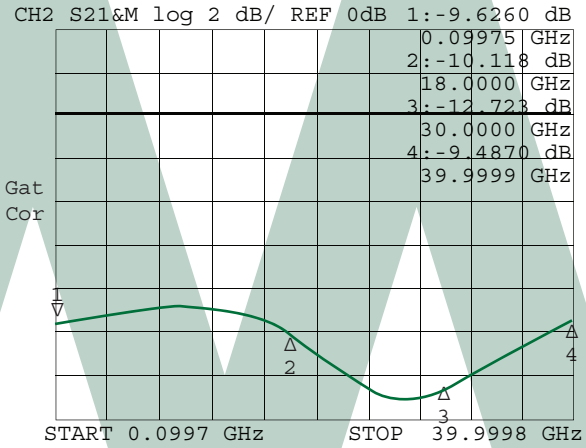
IAX-0706SG06D0 Insertion Loss



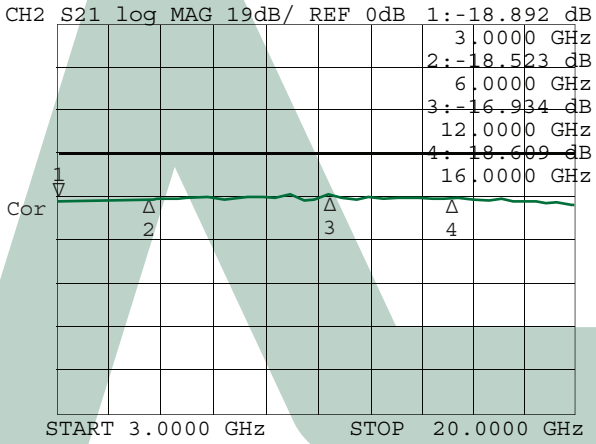
IAX-1206SG07D0 Insertion Loss



IAX-0706SG10D0 Insertion Loss



IAX-1206SG19D0 Insertion Loss



For Higher Power Dissipation see our V-Series AℓN Attenuators to 100W

The graphs above were performed in a matched continuous 50Ω system with proper application of RF principles.

impossible made simple

ims International Manufacturing Services, Inc.
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http://www.ims-resistors.com