

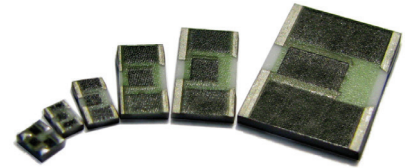
# IAX Series



## Surface Mount Thick Film Attenuator

### Features

- Up to 70 dB
- 0.2 dB accuracy
- 15W input power



Thick Film

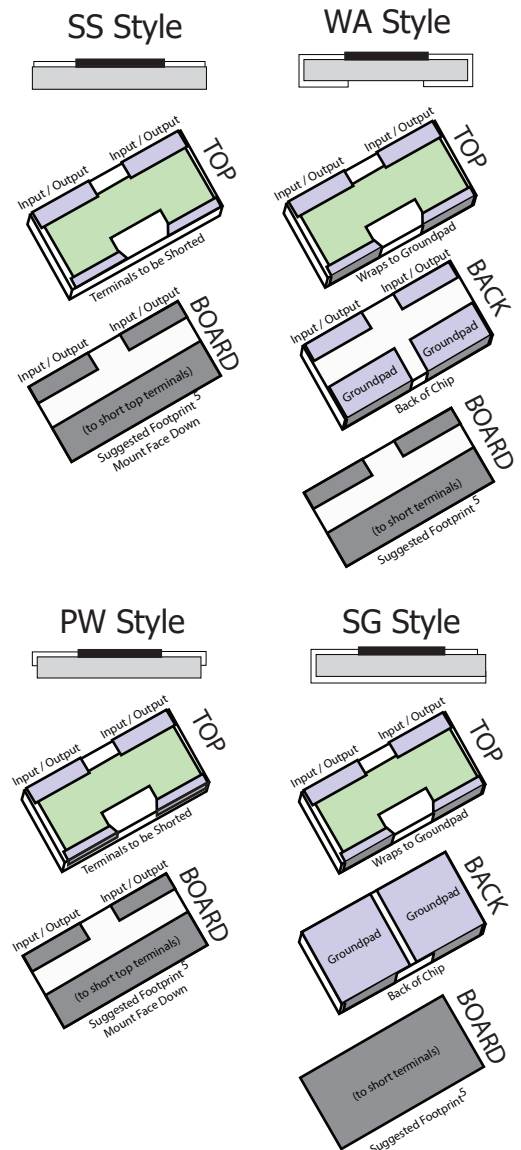


Part Number	Length x Width	Height	Power Rating <sup>2</sup>	Impedance
0706	0.075" x 0.060"	0.020" Max	300 mW	50Ω
0805	0.080" x 0.050"	0.020" Max	400 mW	50Ω
1206	0.126" x 0.063"	0.020" Max	1 W	50Ω
2010	0.197" x 0.097"	0.028" Max	3 W	50Ω
2512	0.248" x 0.126"	0.028" Max	5 W	50Ω
3725	0.375" x 0.250"	0.028" Max	15 W	50Ω

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

### Attenuation Accuracy

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



**Order Information**

**Example: IA 3 - 1206 SG 02 D5**

Prefix for attenuators screened on Alumina | **IA**

Termination Metallization | **3**

Size | **1206**

dB Increment (D0 denotes whole value) | **02**

-OR- (D5 denotes whole value + .5dB available up to 16.5dB) | **D5**

dB Whole Value (00-70) | **1206**

Termination Style | **SG**

Termination Style Legend:  
 -SG Single Wrap to Groundplane  
 -WA Wraparound  
 -SS Single Sided (0706 ONLY)  
 -PW Partial Wrap

Termination Metallization Legend:  
 1 Au (0706SS only)  
 3 PtAg  
 8 PtAg (Ultra Leach Resistant)  
 C PtAg with Sn62 solder coating  
 H PtAg with Sn62 solder coating (Ultra Leach Resistant)  
 P PtAg with Sn96 solder coating  
 R PtAg with Sn96 solder coating (Ultra Leach Resistant)

Size Legend:  
 0706 1206 2512  
 0805 2010 3725

Indicates RoHS Compliance

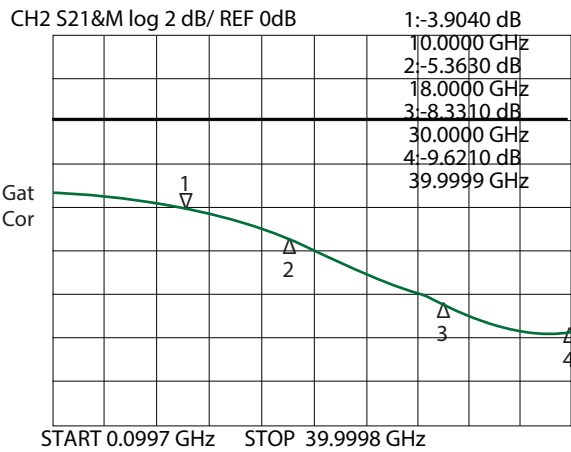
1 Consult factory  
 2 With 100 deg. C baseplate  
 3 Mounted in a matched continuous 50 ohm system  
 4 Based on TCR and resistor tolerance at DC  
 5 Groundpads must be shorted during assembly

## International Manufacturing Services, Inc.

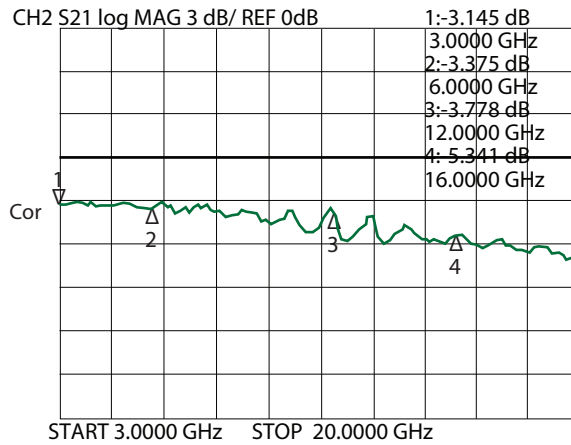
50 Schoolhouse Ln., Portsmouth RI 02871 USA

Tel (401) 683-9700 • Fax (401) 683-5571 • e-mail: [ims@ims-resistors.com](mailto:ims@ims-resistors.com) • [www.ims-resistors.com](http://www.ims-resistors.com)

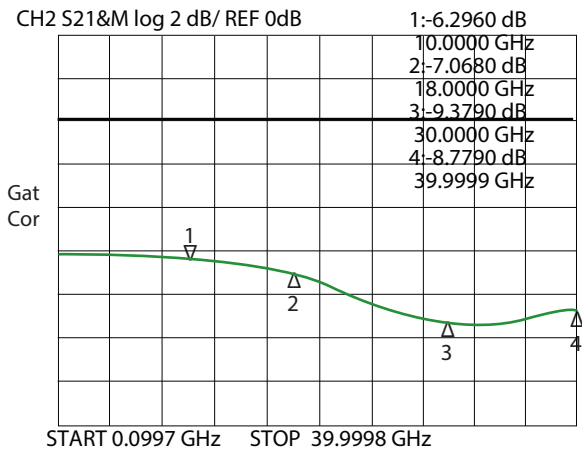
### IAX-0706SS03D0 Insertion Loss



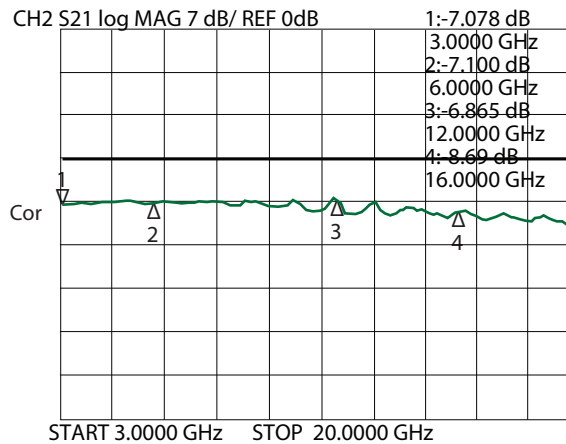
### IAX-1206WA03D0 Insertion Loss



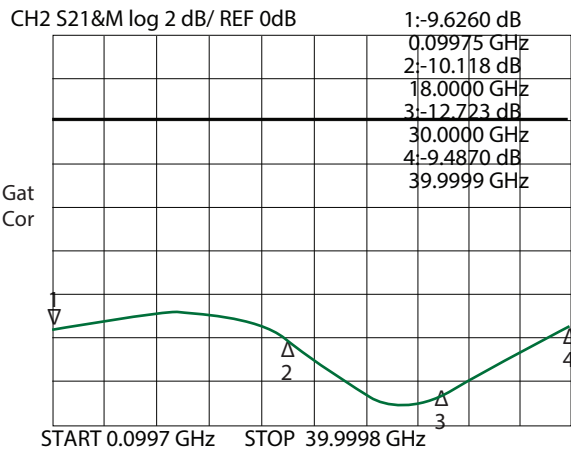
### IAX-0706SS06D0 Insertion Loss



### IAX-1206WA07D0 Insertion Loss



### IAX-0706SS10D0 Insertion Loss



### IAX-1206WA19D0 Insertion Loss

