

# IAX Series

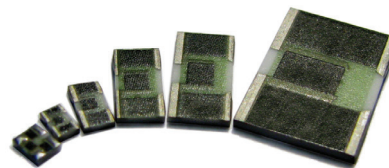
ims

## Surface Mount Thick Film Attenuator

### Features

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

| 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       |



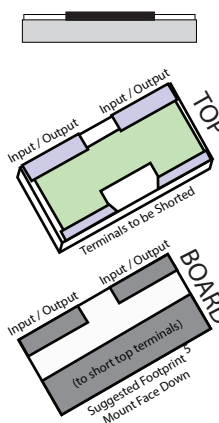
Thick Film

| 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        |

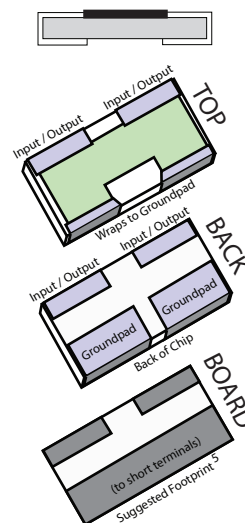
### Attenuation Accuracy

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

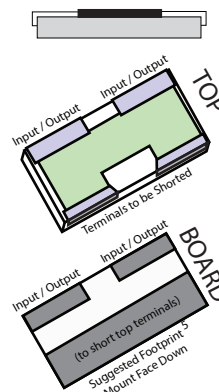
### SS Style



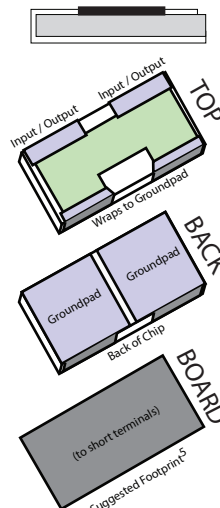
### WA Style



### PW Style



### SG Style



### Order Information

Example: IA 3 - 1206 SG 02 D5

Prefix for attenuators screened on Alumina

Termination Metallization

- ☒ 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

|      |      |      |
|------|------|------|
| 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)
- PW Partial Wrap

☒ 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

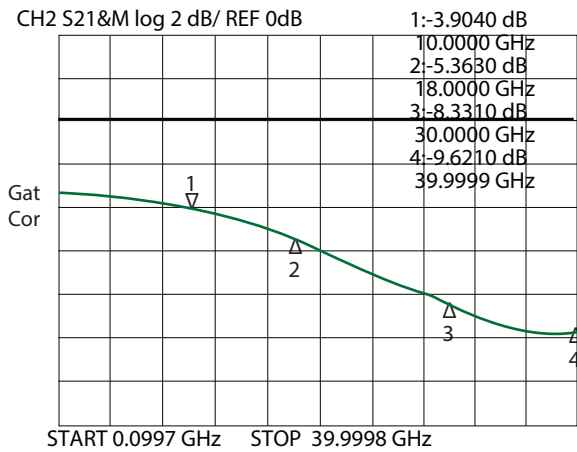
5 Groundpads must be shorted during assembly

## International Manufacturing Services, Inc.

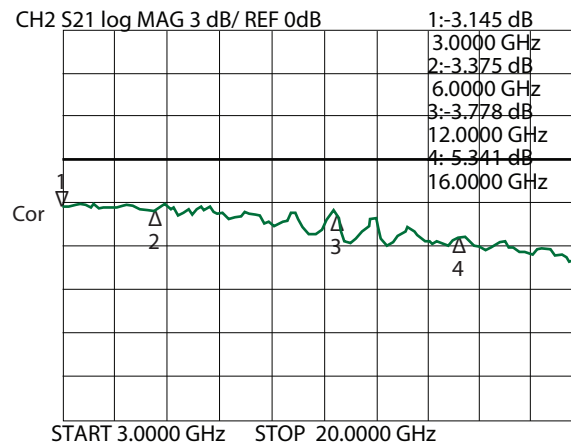
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Tel (401) 683-9700 • Fax (401) 683-5571 • e-mail: [ims@ims-resistors.com](mailto:ims@ims-resistors.com) • [www.ims-resistors.com](http://www.ims-resistors.com)

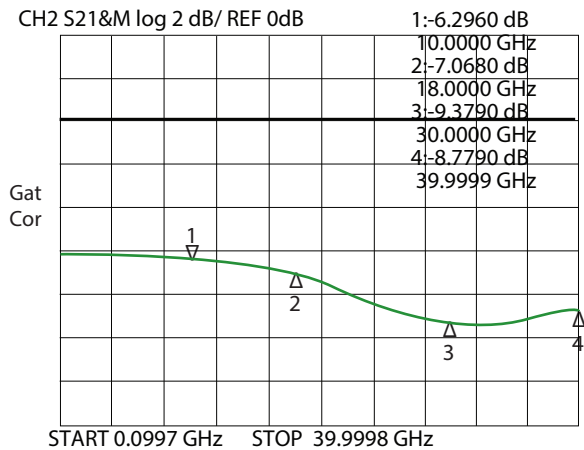
IAX-0706SS03D0 Insertion Loss



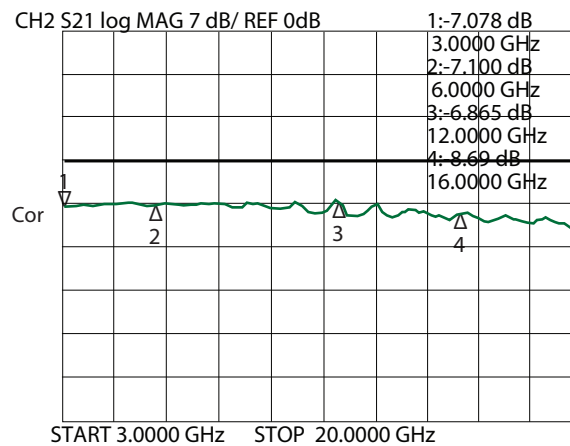
IAX-1206WA03D0 Insertion Loss



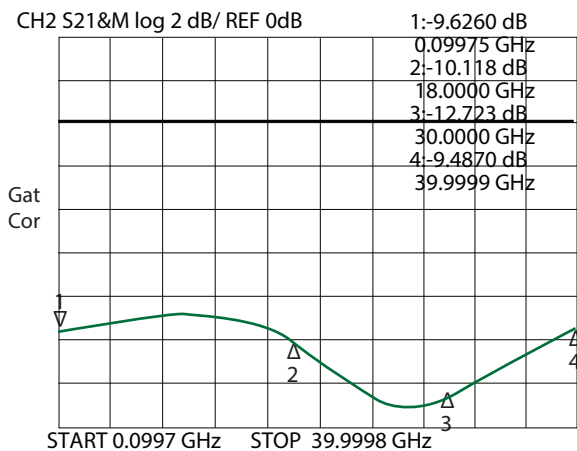
IAX-0706SS06D0 Insertion Loss



IAX-1206WA07D0 Insertion Loss



IAX-0706SS10D0 Insertion Loss



IAX-1206WA19D0 Insertion Loss

