

Thin Film Surface Mount Chip Attenuator

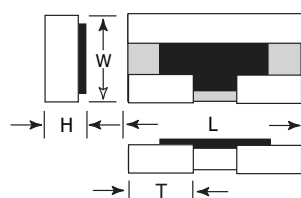
Features

- 99.5% Al_2O_3 substrate material
- Nickel barrier layer for excellent solderability and mechanical integrity
- Ultra low noise attenuator element
- Excellent high frequency performance
- Low inductance and parasitic capacitance
- Stable characteristics over temperature and time
- Polyimide passivation of attenuator element
- Available in bulk or on tape and reel
- 100% matte tin finish

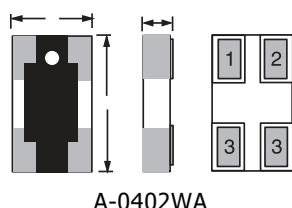


Part Number	Length	Width	Height	Terminal	Rated Power (70°C)	Impedance
A-0402WA & IMS2652	$0.039 \pm .004$	$0.020 \pm .004$	0.014 max.	$0.009 \pm .002$	32 mW	50 Ω
A-0603 & IMS2533	$0.063 \pm .004$	$0.032 \pm .004$	0.020 max.	$0.016 \pm .006$	63 mW	50 Ω
A-0805 & IMS1141	$0.079 \pm .008$	$0.049 \pm .008$	0.020 max.	$0.020 \pm .008$	100 mW	50 Ω
A-1206	$0.126 \pm .008$	$0.063 \pm .008$	0.020 max.	$0.039 \pm .010$	125 mW	50 Ω
A-1612	$0.165 \pm .008$	$0.118 \pm .008$	0.020 max.	$0.037 \pm .008$	250 mW	50 Ω

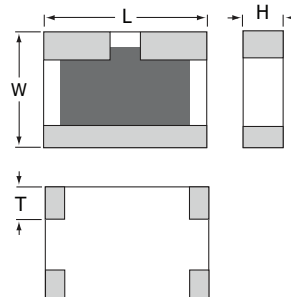
Dimensional Outline



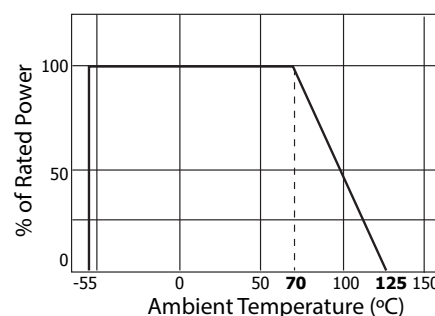
A-0603, A-0805, A-1206
IMS1141, IMS2533



A-0402WA



A-1612



Item	Specification		
Operating Temperature	-55° to 125°C		
VSWR	1.3:1 maximum (except A-0402WA = 1.5:1)		
Attenuation	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 16*, 20** dB		
Attenuation tolerance			
A-0402WA & IMS2652	±0.3 dB (0-3 dB)	±0.5 dB (4-7 dB)	±1.0 dB (8-10 dB)
A-0603 & IMS2533	±0.3 dB (0-3 dB)	±0.5 dB (4-7 dB)	±1.0 dB (8-10 dB)
A-0805 & IMS1141	±0.3 dB (0-10 dB)		
A-1206	±0.3 dB (0-10 dB)	±0.5 dB (16 dB)	
A-1612	±0.3 dB (0-10 dB)	±0.5 dB (16 dB)	±1.0 dB (20 dB)

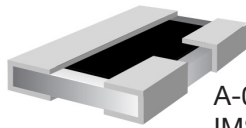
International Manufacturing Services, Inc.

50 Schoolhouse Ln., Portsmouth RI 02871 USA

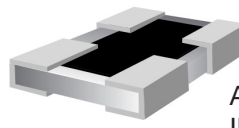
Tel (401) 683-9700 • Fax (401) 683-5571 • e-mail: ims@ims-resistors.com • www.ims-resistors.com

Terminations

Full wraparound



A-0603,0805,1206,1612
IMS1141, IMS2533

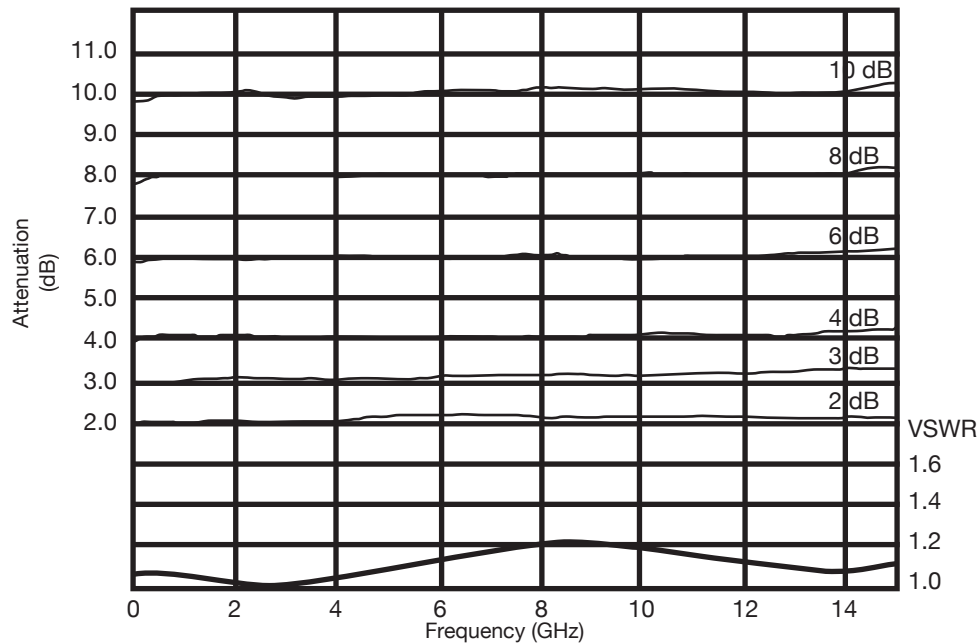


A-0402WA
IMS2652

Attenuation Ranges

The A-Series is available in values from 0 dB to 10 dB in 1 dB increments.
Standard impedance is 50 Ω .

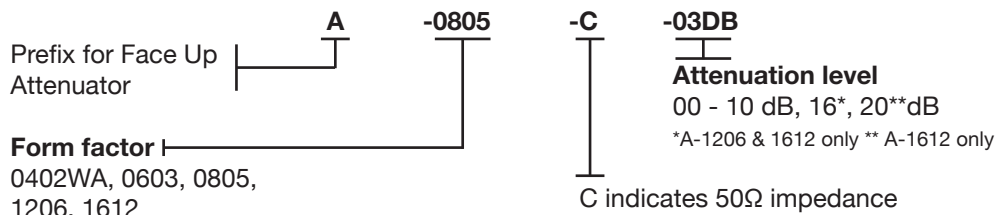
Frequency Characteristics (A-0805)*



*Performs within spec to 20 GHz when mounted face down.

Ordering Information

Face Up Example: 3 dB, 100 mW, SMT 0805 attenuator.



Face Down Example: 3 dB, 100 mW, SMT 0805 attenuator.

