

Attenuators

Fixed Chip Attenuators



Chip attenuators are available in various termination types and finishes for applications at frequencies up to 40 GHz and beyond.

Surface Mount Chip Attenuators

Wraparound termination type C is used at frequencies <4 GHz. At frequencies >4GHz, inductive losses associated with the wraparound degrades performance. Flip chip mounting (film side down) reduces the inductive losses while providing a solder fillet that is readily inspected. *Example: S1512CW3B0B*

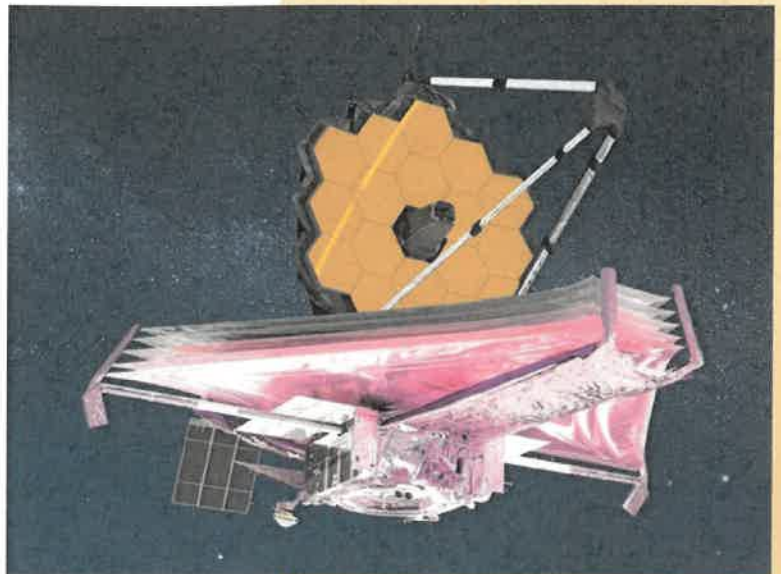
The planar terminations of the A termination type minimize inductive losses at higher frequencies (>4 GHz) when the device is flip chip soldered (film side down). *Example: S0706AC10B0B*

Chip Attenuators for Hybrids

Chip attenuators for hybrids have a gold finish for wire bonding and either A or E termination type. *Examples: S0706AC1B0W, S1512EC10B0W*

Coplanar Chip Attenuators

Coplanar fixed chip attenuators are offered for both surface mount and hybrid applications. *Examples: Surface mount: S0303AC3B0B, Wire bondable: S0303AC3B0W*



S 0706 A C 10B0 W

Termination Finish B: SN60 solder over nickel barrier W: Gold
Attenuation Factor Three or four characters indicating the attenuation factors with the B indicating the decimal
Product Designation C: Thin film fixed on alumina W: Thick film fixed on alumina
Termination Type A: planar top side C: wraparound E: ground wraparound to metal back
Case Size
Grade S: Standard Grade H: High Reliability Grade

Fixed Attenuators

Case Size Code	Rated Power (mW)	Frequency Range
0303	50	DC - 35 GHz
0706	125	DC - 20 GHz
1005	250	DC - 18 GHz
1512	500	DC - 10 GHz

