

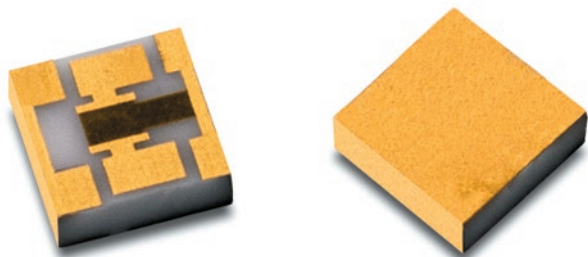
Fixed Attenuator Pads

SemiGen fixed attenuator pads feature precise resistor films and superior metallization resulting in consistent performance and reliability. Our advanced thin-film technology allows our parts to have full side wraps for surface mount or on-board installation. Gold bondable top side contacts for the input and output make these ideal for standard RF/microwave assembly techniques. The fixed attenuators comprises devices with nominal attenuation values of 0 to 30 dB (in 1 dB steps). These attenuators contain wraps that connect the topside ground to the backside metallization of each die.

These pads are optimized for coplanar waveguide or microstrip PCB and microwave module assemblies. Bond wire or ribbon is used to connect the input and output terminals to the transmission lines. Connection to ground is achieved through the topside wraps connecting to the bottom metalized surface. The size, ground wrap and process controlled resistor values allow the user enhanced power handling and return loss.

Features:

- Medium- to High-Power Handling 1W to 5W CW
- Flat Response from DC to 20 GHz
- Return Loss >18dB DC to 14 GHz
- Return Loss >16dB 15 GHz to 20 GHz
- Temp Stable TCR <100 PPM
- Chip Size .030" X .030" on most all designs



Part Number	Value (dB)	IL (dB)	RL (dB)
SFAP-1db	1	+/- .20	>18
SFAP-2db	2	+/- .20	>18
SFAP-3db	3	+/- .20	>18
SFAP-4db	4	+/- .20	>18
SFAP-5db	5	+/- .20	>18
SFAP-6db	6	+/- .25	>18
SFAP-7db	7	+/- .25	>18
SFAP-8db	8	+/- .25	>18
SFAP-9db	9	+/- .25	>18
SFAP-10db	10	+/- .25	>18
SFAP-11db	11	+/- .30	>18
SFAP-12db	12	+/- .30	>18
SFAP-13db	13	+/- .30	>18
SFAP-14db	14	+/- .30	>18
SFAP-15db	15	+/- .30	>18
SFAP-16db	16	+/- .40	>18
SFAP-17db	17	+/- .40	>18
SFAP-18db	18	+/- .40	>18
SFAP-19db	19	+/- .40	>18
SFAP-20db	20	+/- .40	>18
SFAP-21db	21	+/- .50	>18
SFAP-22db	22	+/- .50	>18
SFAP-23db	23	+/- .50	>18
SFAP-24db	24	+/- .50	>18
SFAP-25db	25	+/- .50	>18
SFAP-26db	26	+/- .60	>18
SFAP-27db	27	+/- .60	>18
SFAP-28db	28	+/- .60	>18
SFAP-29db	29	+/- .60	>18
SFAP-30db	30	+/- .60	>18