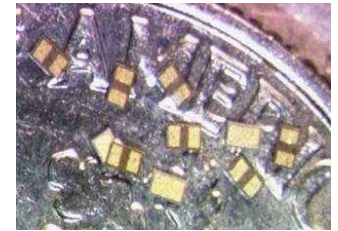




GAIN EQUALIZER

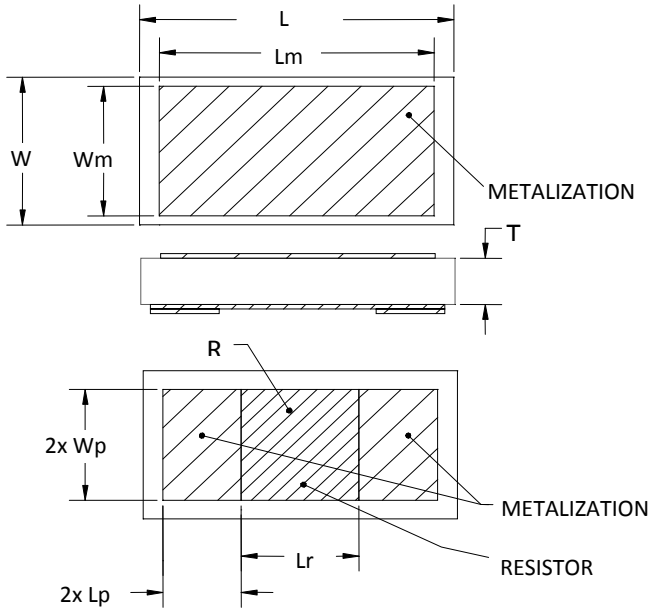
Used to Compensate for the Loss Slope of other Elements



FUNCTIONAL APPLICATIONS:

Broadband communications, RADAR, phased arrays and SONET modules up to 40+ GHz as well as other applications requiring compensation for a negative gain slope.

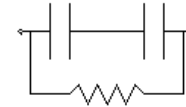
PHYSICAL CHARACTERISTICS:



BENEFITS:

DLI's Gain Equalizer offers superior microwave performance with excellent repeatability and ease of assembly at a reduced size and cost.

EQUIVALENT SCHEMATIC REPRESENTATION:



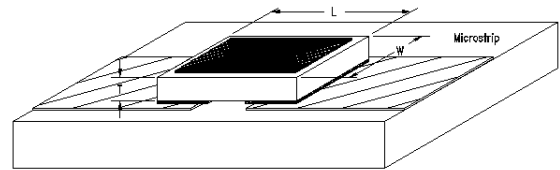
Part #	Material	Resistor (R)	Total Capacitance	Fo
AEQ 2199	BF	43 Ω	6.01 pF	10 GHz
AEQ 2050	CG	30 Ω	1.56 pF	20 GHz
AEQ 2234	CG	50 Ω	1.47 pF	40 GHz

Metalization:

Top side: TaN 50Ω / □, 400±100 Å TiW, 100 μ Inch Au minimum.
Bottom side: 400±100 Å TiW, 100 μ Inch Au minimum.

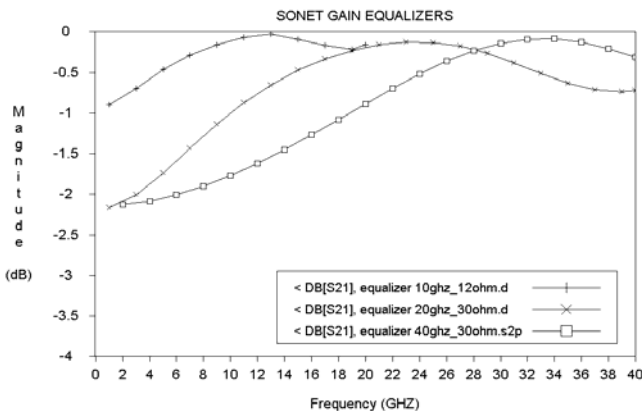
Die Attachment recommendations:

The gap in the microstrip should be wider than the resistor width (gap) on the equalizer. Conductive epoxy is recommended.

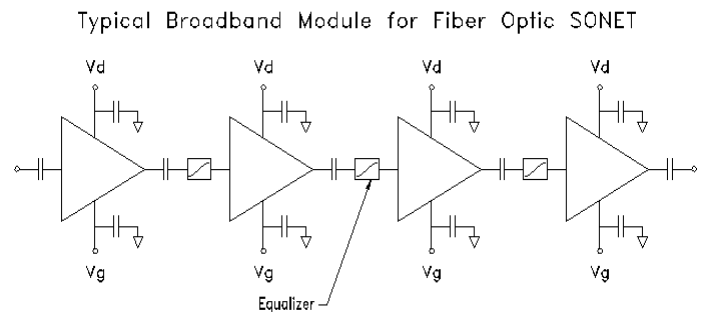


Part #	L	W	T	Lm	Wm	Lp	Wp	Lr
AEQ 2199	0.028" ± .002" (.711 ± .051 mm)	0.016" ± .002" (.406 ± .051 mm)	0.007" ± .001" (.178 ± .025 mm)	0.026" (.660mm)	0.014" (.356mm)	0.007" (.178mm)	0.014" (.356mm)	0.012" (.305mm)
AEQ 2050	0.030" ± .002" (.762 ± .051 mm)	0.016" ± .002" (.406 ± .051 mm)	0.005" ± .001" (.127 ± .025 mm)	0.026" (.660mm)	0.014" (.356mm)	0.009" (.229mm)	0.014" (.356mm)	0.008" (.203mm)
AEQ 2234	0.032" ± .002" (.813 ± .051 mm)	0.018" ± .002" (.457 ± .051 mm)	0.005" ± .001" (.127 ± .025 mm)	0.028" (.711mm)	0.014" (.356mm)	0.008" (.203mm)	0.012" (.305mm)	0.012" (.305mm)

TYPICAL PERFORMANCE:



TYPICAL APPLICATION:



Custom Equalizers can be designed per customer specification, Please consult an inside sales representative for additional information or special requirements.

Dielectric Laboratories Inc.

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QUALITY SYSTEMS ISO 9001 AND AS9100 CERTIFIED, ENVIRONMENTAL SYSTEM ISO 14001 CERTIFIED