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TECHNOLOGY GROUP

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Equalizer Overview

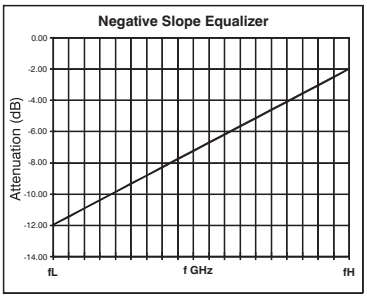
Inmet Gain Equalizers offer simple solutions to your system slope problems. Negative, Positive, Parabolic or Fine Grain Ripple slope units can be built to meet your desired performance parameters in the DC-40 GHz frequency range. Gain equalizers are passive microwave components that have an insertion loss characteristic that varies as a function of frequency. Inmet can supply both standard and custom-designed equalizers to meet the needs of commercial and military customers alike. We have engineering staff devoted exclusively to this product line and can supply designs that precisely define a preset loss characteristic (fixed equalizers) or with the ability to be loss-adjusted to custom-fit the particular variable requirements needed to field-tune a system. Each equalizer application has an insertion loss characteristic and package configuration that is unique. Equalizers can be custom made to meet the desired performance parameters and package configurations for each application.

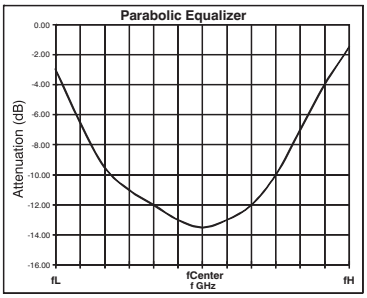
NEGATIVE SLOPE equalizers are typically used for applications to offset the excessive loss of long cable runs at high fre-quencies. The loss characteristic of the equalizer decreases linearly with frequency.

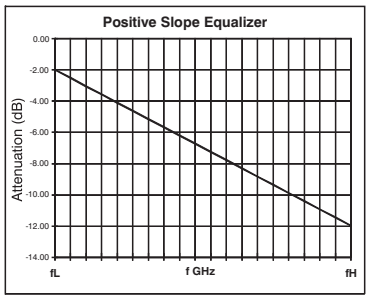
POSITIVE SLOPE equalizers are typically used for applications to offset excessive loss of low frequencies where waveguide transmission characteristics require an equalizer that has increasing attenuation with frequency.

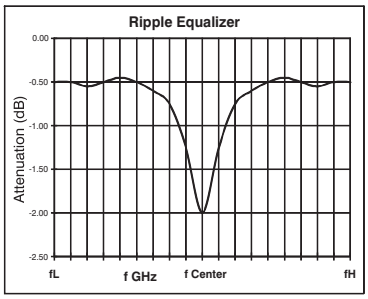
PARABOLIC equalizers are used in applications where a broadband traveling wave tube (TWT) or solid state amplifier (SSA) has maximum gain at or near the center of the frequency band. The characteristics of the equalizer require maximum attenuation at mid-band and decreasing attenuation at band edges.

RIPPLE equalizers are used to flatten gain ripple and spikes in a broadband application. The narrow band attenuation is adjustable in the bands where the ripple or spikes occur and flatten the response in these sub bands.



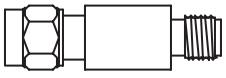






Standard Model Gain Equalizers

MODEL NO.	FREQ. (GHz)	Slope	Connectors
Equalizers (A Selection of Standard Models)			
EQ1100	.5-2 GHz	Negative Slope	SMA
EQ1101	.5-4 GHz	Negative Slope	SMA
EQ1102	2-8 GHz	Negative Slope	SMA
EQ1103	4-8 GHz	Negative Slope	SMA
EQ1251	2-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2301	.5-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2400	6-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2401	8-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2402	2-18 GHz	Positive Slope	SMA/TNC/Type N



EQ1251-SMA Shown

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We buy equipment

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