

The 8579 and it＇s related product family provides a simple one－chip method of driving 2 －input （series／shunt）GaAs MMIC attenuators with a binary coded word．The device is capable of 8 －bit resolution，and linearizing resistors can be calculated with freely－provided software．

Package is .325 by .625 ， .115 thick 22 leads

The Impellimax model 8579 accepts an 8 －bit binary word and provides two voltage outputs which can drive a GaAs MMIC attenuator in a linear mode，resulting in 256 linearly－spaced attenuation steps．The output transfer function curves are user－ adjustable，by means of four breakpoint connections，to allow tailoring to specific GaAs IC＇s and attenuation ranges．

The unit operates with supplies in the range of $+/-5 \mathrm{~V}$ to $+/-15 \mathrm{~V}$ ，with TTL compatibility assured over this full range．There are internal .01 uF power－supply－ decoupling capacitors on both supplies．Power supply consumption is typically under 20 mA per supply，depending on the application circuit．

Settling time for a half－band step is typically in the range of 50 to 200 nsec ．
The device is housed in a .375 by .625 inch flatpack，which is .115 thick．It is a 22 －lead device，and gull－wing leadforming is available as a no－charge option．It is rated for operation from $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ ．

This device can also be used to drive certain types of PIN－diode attenuators． Related devices are available to provide similar funtionality for single－output（either series or shunt）PIN attenuators，in which case there can be up to 9 breakpoints available for setting the linearity of the transfer function．

VCO linearizing versions are also available．Contact the factory for details．

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