

# MICROWAVE SOLID STATE PRODUCTS

## SUCCESSIVE DETECTION LOG AMPS

Frequency Range: 0.1 to 2.0 GHz  
Dynamic Range: 70 dB  
High Speed: 25/30 nS Rise/Fall Times  
MMIC Reliability  
Connectorized Units  
Drop-In Packages  
Testing Available to MIL-STD-883B



## LOW COST FREQUENCY DISCRIMINATORS

Frequency Range: 0.5 to 18.0 GHz

## PHASE SHIFTERS

Frequency Range: 2 to 18 GHz  
(Octave Bandwidths)  
Range: +/- 90 Degrees  
Control: Analog Voltage, Programmable



## THRESHOLD DETECTORS / COUPLERS

High Speed: 10nS  
ECL, TTL Logic Compatible Outputs



## LIMITER/DETECTORS

Frequency Range: 0.1 to 20 GHz  
Limiting Levels: -5 to +10 dBm  
Limiting Types: Hard, Soft  
High Power Units Available



## OTHER PRODUCTS

Power Dividers  
High Dynamic Range Receiver Front Ends



*ISO 9001:1994 Certified*



**PLANAR  
MONOLITHICS  
INDUSTRIES  
INCORPORATED**

7311G-2 Grove Road  
Frederick, Maryland 21704  
Tel: (301) 631-1579 Fax: (301)662-2029  
Web: <http://www.planarmonolithicsindustries.com>  
E-mail: [sales@planarmonolithics.com](mailto:sales@planarmonolithics.com)



# MICROWAVE SOLID STATE SWITCHES

## FEATURES

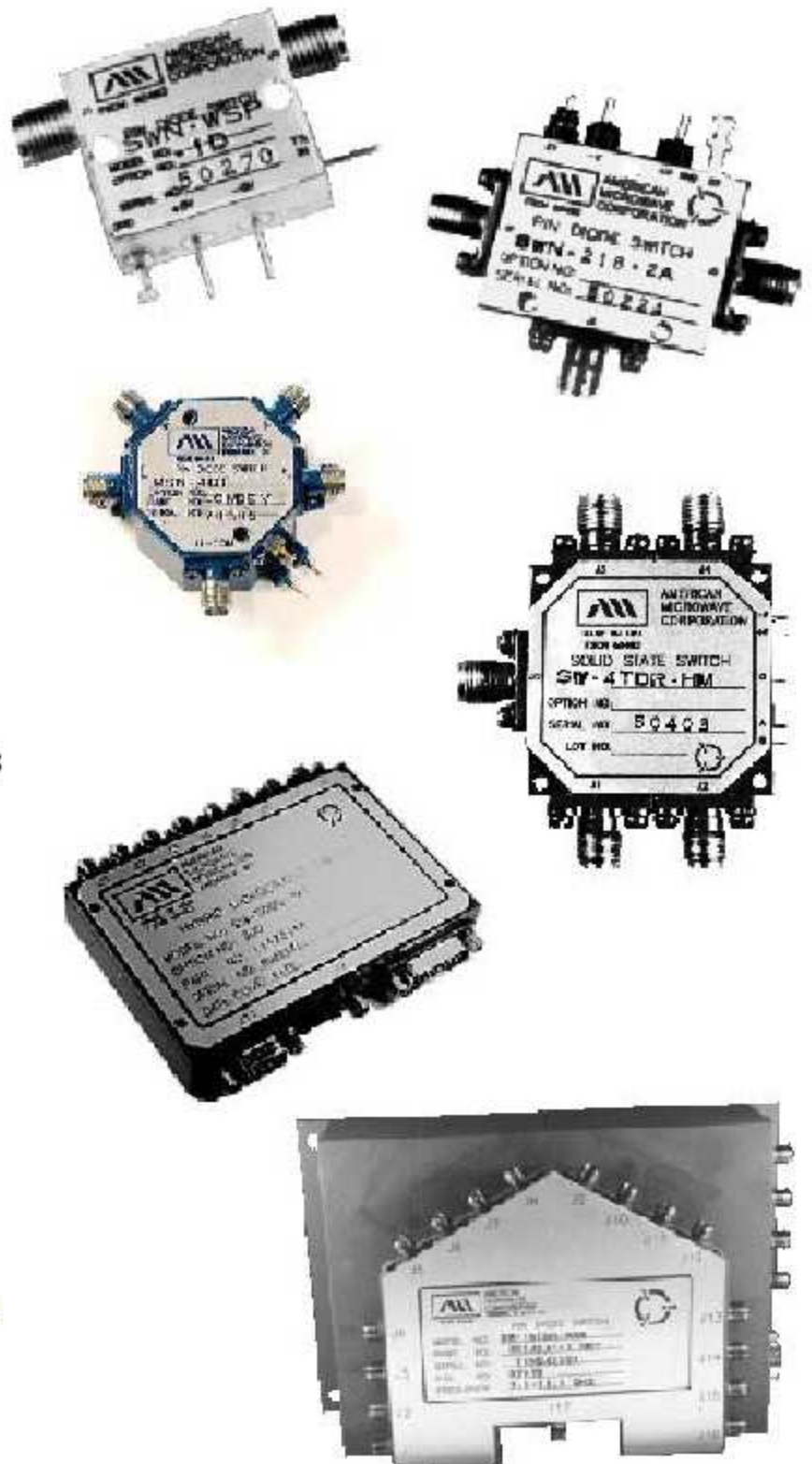
- Frequency Range: 10 MHz to 27 GHz
- 2 Nanosecond Rise/Fall Pulse Modulators
- Balanced On/Off.
- Low Insertion Loss
- SPST through SP64T Models
- Transfer Switches
- 100 dB+ Isolation
- Phase Matching
- Non-Reflective Models
- Low Video Transient Models
- Hermetic Seal Available
- Miniature Models in Production
- MTBF up to 5 Million hours
- GaAs MMIC Models
- PIN Diode Models
- TTL Compatible Drivers
- ECL Compatible Drivers
- Balanced Driver Interface
- Decoders Available on Multithrow Models

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**AMERICAN  
MICROWAVE  
CORPORATION**

7311G Grove Road, Frederick, MD 21704  
Tel: (301) 662-4700 • Fax: (301) 662-4938  
Web: <http://www.americanmicrowavecorporation.com>  
E-Mail: [sales@americanmicrowavecorp.com](mailto:sales@americanmicrowavecorp.com)





# ELECTRONICALLY VARIABLE ATTENUATORS

## FEATURES

### AGH SERIES

- Attenuation Range: 60dB
- Frequency Range: 0.5 to 18 GHz  
(Octave Bandwidths)
- Rise Time: 1.5uS (200 nsec Optional.)
- Fall Time: 50nS
- Power Handling: +20dBm
- Current Control: Standard
- High Speed Units Available



### AGT SERIES

- Attenuation Range: 60dB
- Frequency Range: 0.3 to 18 GHz
- Rise Time: 3.0uS (1uSec Optiona
- Fall Time: 3.0uS
- Power Handling: +10dBm
- GaAs MMIC Models Available
- High Speed Units Available



### ALL MODELS

- Linearized, Voltage Controlled Models Available
- Digital Programmable Models Available
- Temperature Compensated, Series D and D
- PIN Diode Elements - Standard
- MMIC Models Optional.



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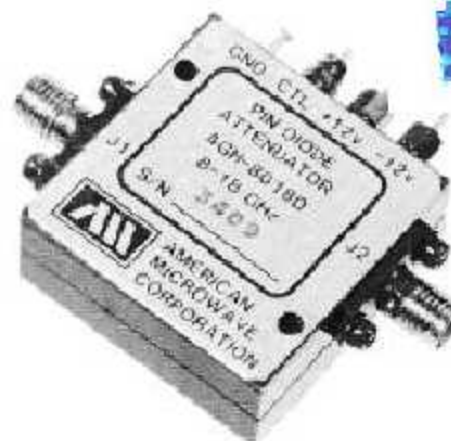
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# DETECTOR LOGARITHMIC VIDEO AMPLIFIERS

## FEATURES

### STANDARD MODEL

- Dynamic Range: 50dB
- Frequency Range: 0.1 to 20 GHz
- Rise Time: 20nS
- Recovery Time: 150nS
- Tangential Sensitivity: -40dBm

### EXTENDED DYNAMIC RANGE

- Dynamic Range: 75dB
- Frequency Range: 0.2 to 20 GHz
- Rise Time: 30nS
- Recovery Time: 350nS
- Tangential Sensitivity: -65dBm
- GaAs FET/MMIC Low Noise Amplifier Included

### ALL MODELS

- Up to 40 MHz Video Bandwidth
- D.C. Coupled
- Temperature Compensated
- CW/Noise Immunity Models Available
- MMIC/MIC Logarithmic Amplifier

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