

# Switched Filter

FREQUENCY RANGE: 6-18 GHz

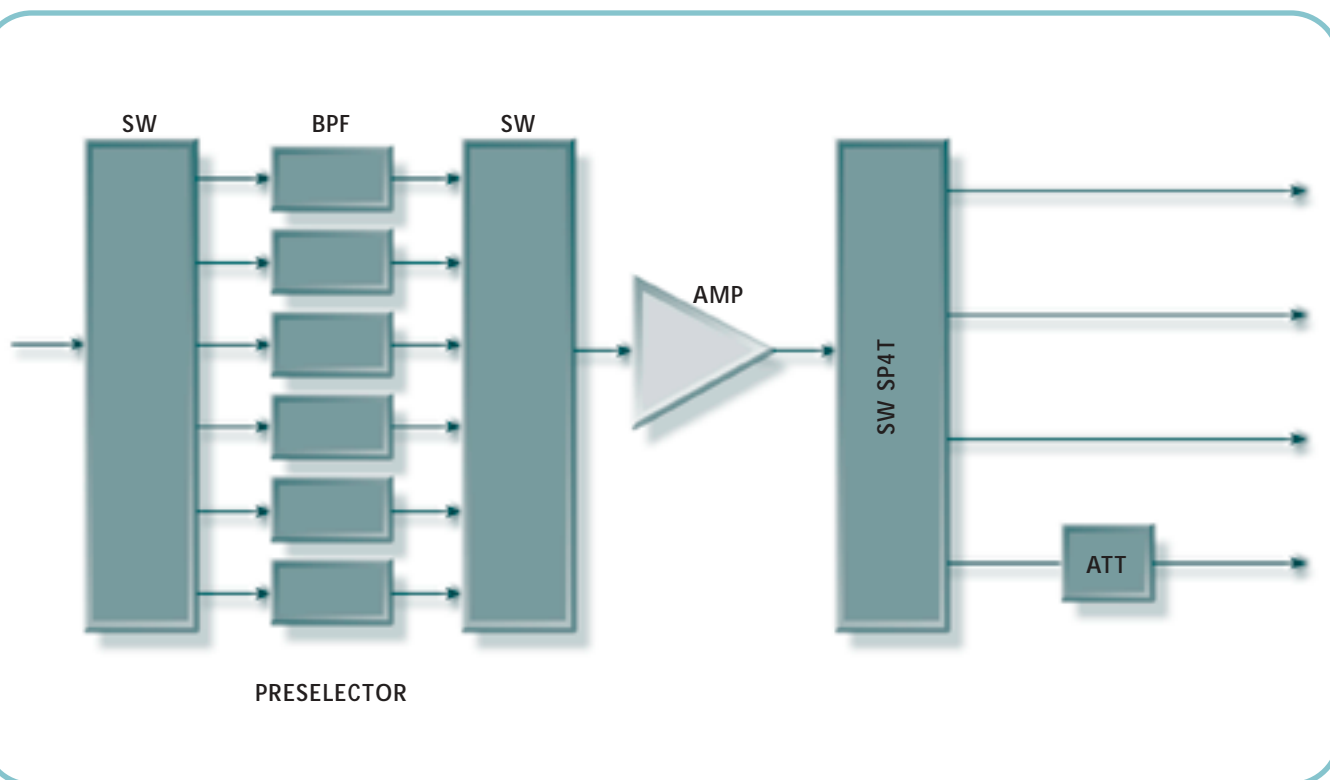
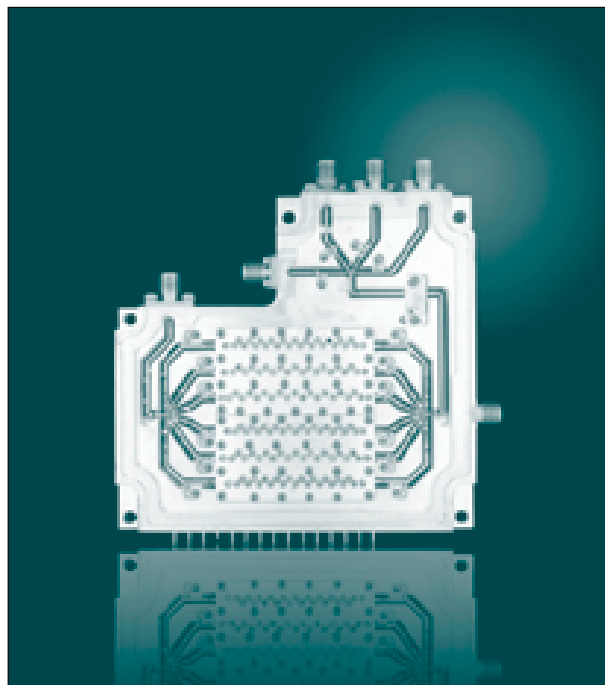
- ▶ 6 Channel Preselector
- ▶ High Speed Switching
- ▶ High Rejection Filters

## APPLICATION

- ▶ EW Systems

## TECHNOLOGY

- ▶ Microstrip
- ▶ MMIC Amplifier
- ▶ PIN Diode Switches
- ▶ Comb Filters
- ▶ Hermetically Sealed (Laser)



## SWITCHED FILTER (continued)

### ELECTRICAL SPECIFICATIONS

Features	Specifications
Frequency Range:	6-18 GHz
Out of Band Rejection:	
FL - 2 GHz to FL-1GHz	55 dBc min.
FH + 1 GHz to FH + 2GHz	55 dBc min.
2 GHz to FL - 2GHz	70 dBc min.
FH + 3 GHz to 19.5GHz	70 dBc min.
Gain:	3 -12 dB
Gain Variation Between Any Two Adjacent Bands:	1 dB, max.
Gain Flatness for Any 800 MHz Bandwidth:	1 dB, max.
VSWR In/Out:	2:1, max.
1 dB Compression Point (Output):	+13 dBm, min.
Noise Figure:	14 dB, max.
3rd Order Intercept Point (Output):	+20 dBm, min.
Switching Speed:	45 nsec, min.
Video Leakage:	
DC- 2 GHz@1 MHz Spectrum Res,	-20 dBm max.
2 - 18 GHz@ 100 kHz Spectrum Res,	-30 dBm max.
DC - 2 GHz	After 40 nsec, 0 mV
SP4T Isolation:	70 dB, min.
Power Consumption:	+12V, 160 mA +5V, 220 mA -12V, 170 mA