

Suspended Substrate

Suspended Substrate (SSS) filter technology enables high frequency (up to 40 GHz) broadband filters to be realised utilising elliptical responses for excellent close-in rejection.

SSS technology utilises a photo-etched, copper-clad dielectric substrate (usually PTFE) secured between silver plated machined casings, to provide outstanding performance in terms of high Q and low Insertion Loss, combined with a small, lightweight yet rugged construction.

This type of filter is ideally suited to broadband applications such as Electronic Warfare systems (ECM, ESM & ELINT). SSS design capability covers the full range of filter structures.

- Lowpass
- Highpass
- Bandpass
- Bandstop
- Multiplexer
- Parabolic Gain Equaliser
- Linear Gain Equaliser



Typical plot of 2.6 to 13 GHz Highpass Filter

- Frequency Range: 500 MHz to 40 GHz
- Bandwidth: 10 % to multi-octave
- Extended Stopband: up to 50 GHz
- 60 dB Rejection achieved at 15% from Bandedges (tighter specs available on request)
- Tight Phase & Amplitude tracking
- Excellent repeatability, stability
- Rugged construction for Military environment
- Customised outlines available
- Fast prototyping service available

