

ON YOUR WAVELENGTH

> **FILTER & DIPLEXER
SOLUTIONS
TO 300GHz**



ASPEN OFFERS AN EXTENSIVE RANGE OF RF & MICROWAVE FILTERS & DIPLEXERS FROM DC TO 300GHz PLUS.

Lowpass, Bandpass, Highpass, Bandstop & Notch Filters as well as Diplexers, Duplexers, Triplexers, Tuneable Filters & Switched Filter Banks. Typical Technologies include Cavity, Ceramic, Comblines, Crystal, Discrete/Lumped Element, Helical, Interdigital, SAW, Suspended Substrate, Tubular, Waveguide & YIG.

CAVITY

30MHz to 40GHz.
0.5 to 66% Bandwidths.
Q 800 to 4,000.
High Power.
Bandpass, Bandstop & Dimpled.
Helical, Comblines, Interdigital & Waveguide.

CERAMIC

200MHz to 11GHz.
0.5 to 30% Bandwidths.
Q 400 to 600.
Bandpass & Dimpled.
SMD, PC Mount & Connectorised.

COMBLINE

500MHz to 15GHz.
1 to 50% Bandwidths.
Q 800 to 3,000.
Bandpass & Dimpled.

CRYSTAL

1 to 200MHz.
High Q over a Narrow Bandwidth.
10.7MHz, 21.4MHz & 45MHz COTS Parts Available.
Discrete & Monolithic Crystal Designs.

DIPLEXERS/DUPLEXERS

500MHz to 20GHz.
1 to 60% Bandwidths.
Q 800 to 4,000.
Connectorised & Waveguide Options.

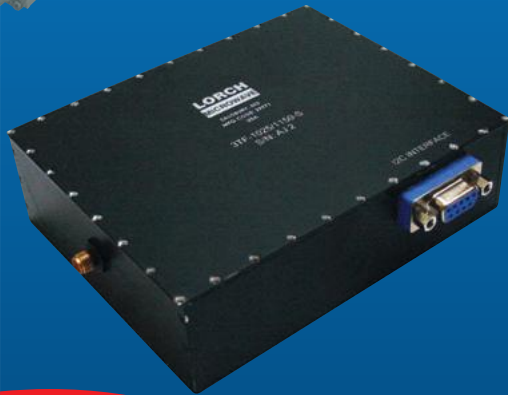
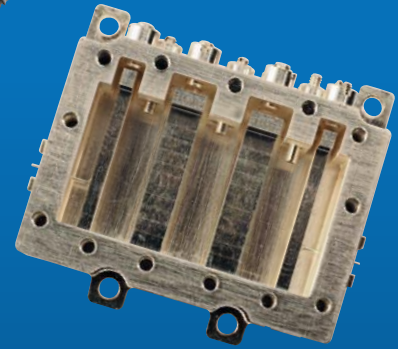
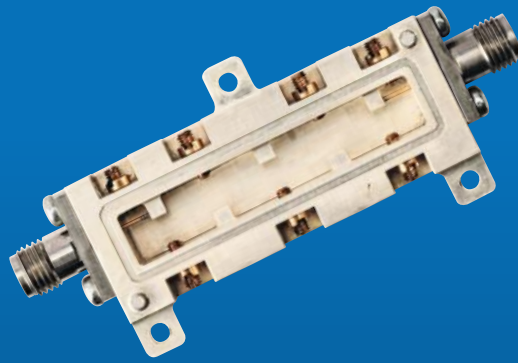
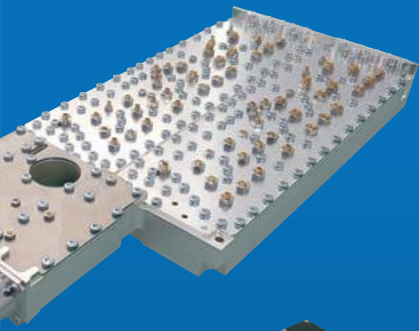
DISCRETE/LUMPED ELEMENT

DC to 20GHz.
Bandwidths: 1 to >100%.
Bandpass, Lowpass, Highpass & Notch.
Monotonic & Elliptic Responses.
SMD, PC Mount Pins, Drop-In or Connectorised.

INTERDIGITAL

500MHz to 30GHz.
1 to 80% Bandwidths.
Q 800 to 3,000.
Bandpass & Dimpled.





SWITCHED FILTER BANKS

High Q, Bandpass Filters.
High Speed, PIN Diode Switched.
Broadband for ECM & ELINT Applications.



TUBULAR

DC to 3GHz.
3 to 40% Bandwidths.
Lowpass & Bandpass.
VSWR 1.5:1 Typical.
2 to 12 Sections.
Custom Designs Available.



TUNEABLE (MANUALLY & ELECTRONICALLY)

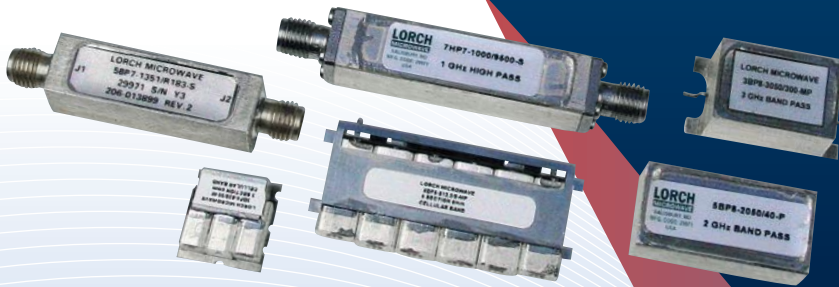
24MHz to 4GHz.
High Power.
Direct Readout.
Octave Tuning.
Digital & Manual Control Available.

WAVEGUIDE

1 to 325GHz.
0.5 to 5% Bandwidths
Q 1,000 to 20,000.
Waveguide Flange or Connectorised.
Lowpass, Highpass, Bandpass, Bandstop & Diplexed.

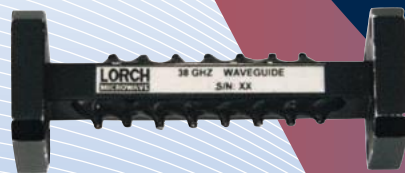
YIG FILTERS

500MHz to 50GHz Standard Electromagnetic.
Miniature from 1 to 8GHz.
Permanent Magnet from 4 to 16GHz.
2 to 8 Stage Bandpass & 2 to 16 Stage Band Reject.
Analog, TTL Digital & Serial Interfaces.
Bench Test Filters with Manual, Keyboard, USB or Ethernet Tuning.



INTEGRATED ASSEMBLIES/SYSTEMS

500MHz to 18GHz.
Multiple Channels.
Combined Technologies & Functionality.

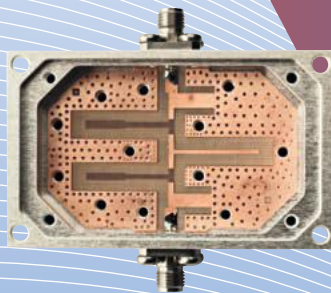


SAW

30MHz to 2.65GHz.
Insertion Loss down to 1.5dB.
Small Size down to 2mm x 1.4mm.

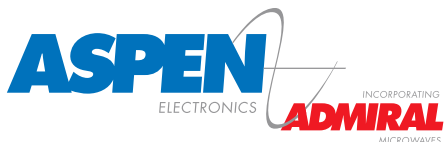
SUSPENDED SUBSTRATE

500MHz to 50GHz.
10% to Multi-Octave Bandwidths.
Q 400 to 600.
Bandpass, Bandstop, Lowpass, Highpass & Diplexed.



- + COMPONENTS
- + TEST EQUIPMENT
- + DESIGN & MANUFACTURE
- + SERVICE & CALIBRATION

> THE ASPEN ADVANTAGE



ON YOUR WAVELENGTH

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SOLUTIONS**



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