

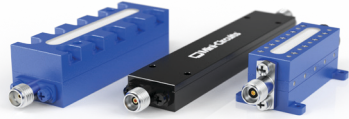
FROM DC TO mmWAVE

Industry-Leading Filter Design

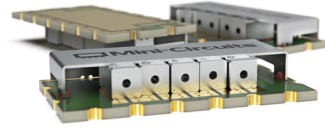
9 Technologies Designed
& Built In-House

 Mini-Circuits®

03. CAVITY FILTERS



04. CERAMIC RESONATOR FILTERS



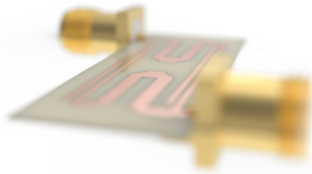
05. LUMPED ELEMENT FILTERS



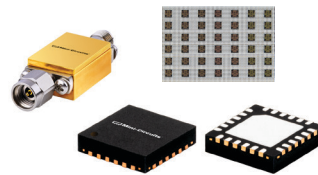
06. LTCC FILTER INNOVATIONS



07. MICROSTRIP FILTERS



08. REFLECTIONLESS FILTERS



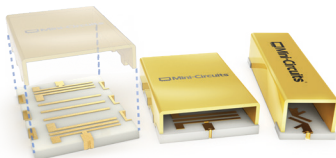
09. WAVEGUIDE FILTERS



10. SUSPENDED SUBSTRATE STRIPLINE



11. THIN FILM FILTER TECHNOLOGY





DC TO 43.5 GHz

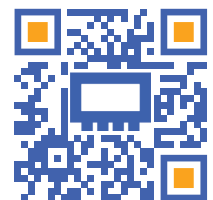
Cavity Filters

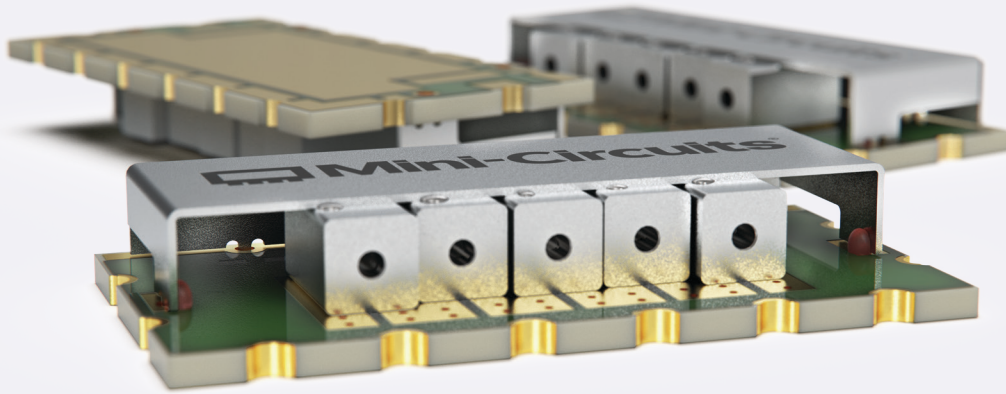
High Rejection & Selectivity

- Passbands up to 43.5 GHz
- Stopbands up to 57 GHz
- Bandwidths as narrow as 1%
- 100+ dB rejection
- Rugged construction



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DC TO 6 GHz

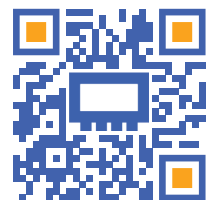
Ceramic Resonator Filters

Your Solid Source

- Wide selection in stock
- Fast, affordable custom designs
- Reliable replacement for EOL parts
- Support through the life of your system
- 30+ years in-house design & manufacturing



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DC TO 6 GHz

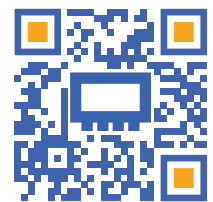
Lumped Element Filters

For Every System Requirement

- Wide catalog selection
- Several package options including aqueous washable
- Variety of filter topologies
- Fast, affordable custom designs



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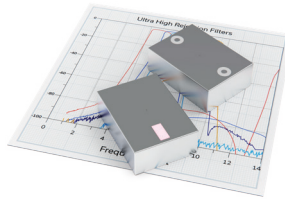
LTCC Filter Innovations

The Industry's Widest Selection

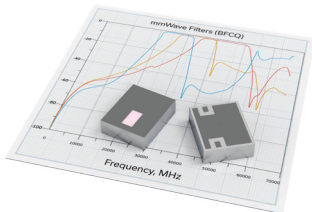


Ultra-High Rejection

- Rejection floor down to 100+ dB
- Excellent selectivity
- Built-in shielding
- 1812 package style
- Patent pending



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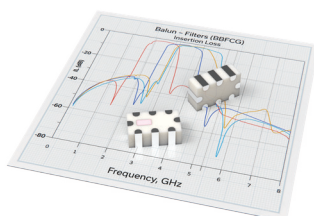
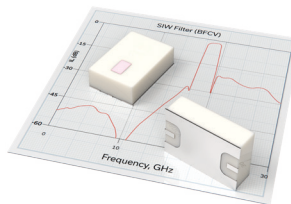


mmWave Passbands

- Passbands to 50+ GHz
- The industry's widest selection of LTCC filters optimized for 5G FR2 bands
- Growing selection of models for Ku- and Ka-band Satcom downlink
- 1812 & 1008 package styles

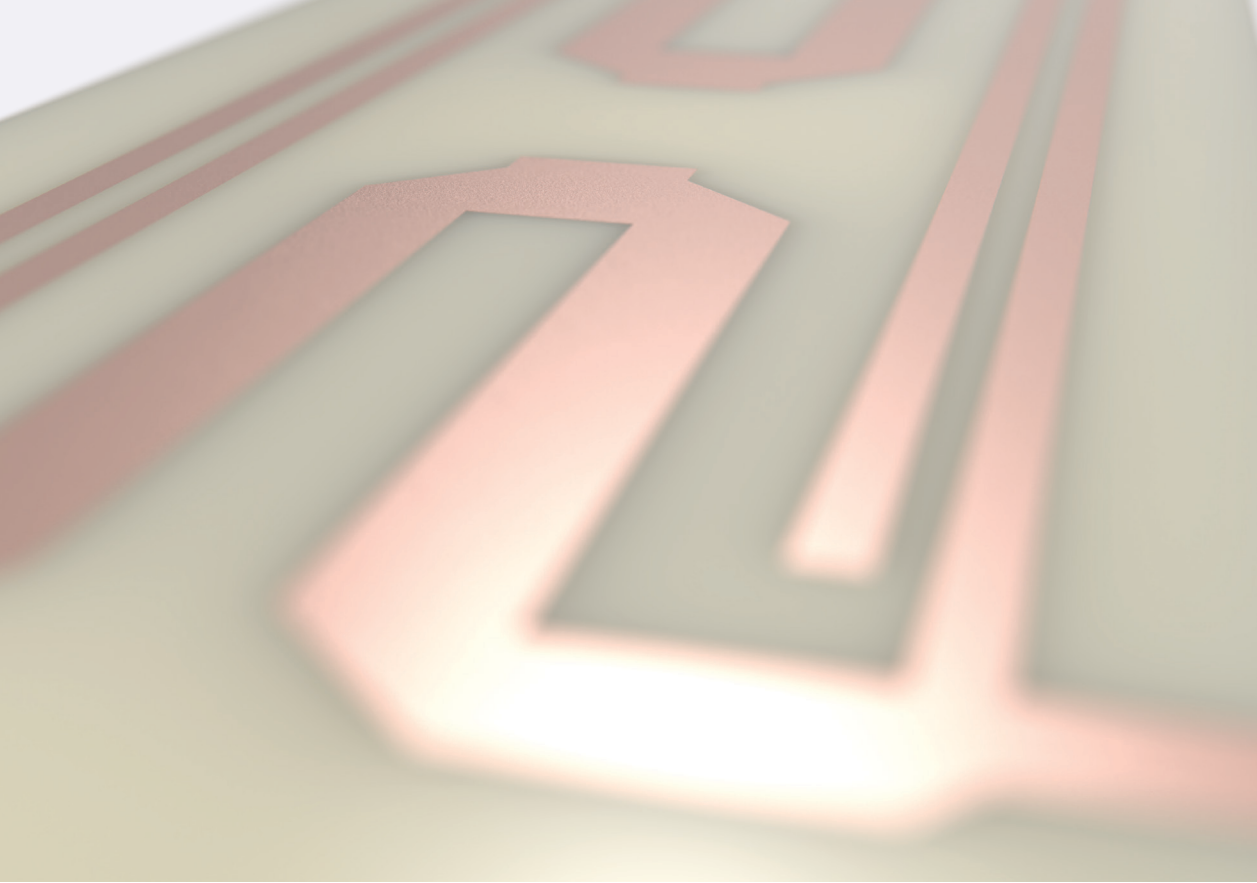
Substrate Integrated Waveguide

- First commercially available SIW LTCC filter in the industry
- Narrow bandwidth (~5%) and good selectivity
- Internally shielded to prevent detuning
- 1210 package style



Integrated Balun-Bandpass Filters

- Combine balun transformer and bandpass filter in a single device
- Saves space and simplifies board layouts in ADCs, DACs and other circuits
- 1210, 1008 & 0805 package styles

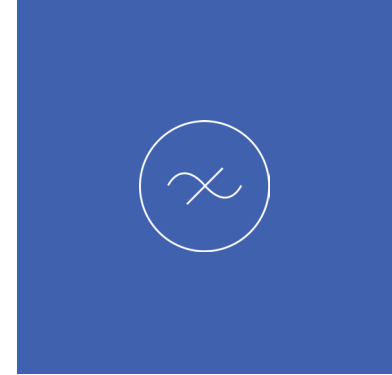


DC TO 3300 MHz

Microstrip Filters

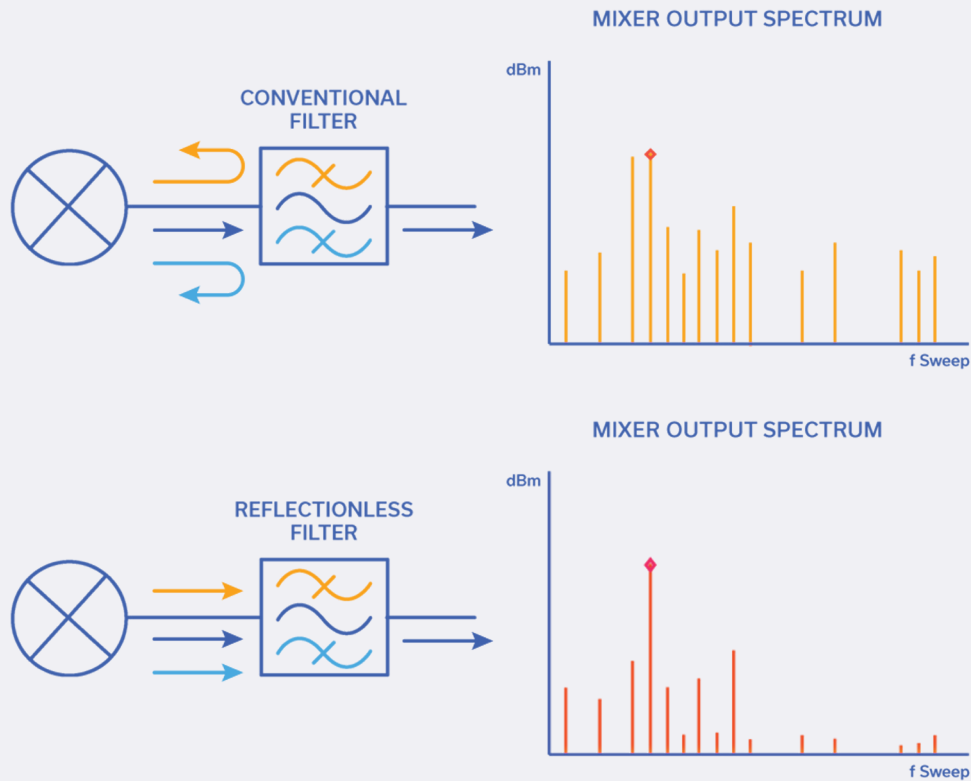
High Q and Flat Group Delay

- Connectorized designs with 4 to 40% fractional bandwidth
- Power handling up to 10W
- Flat group delay characteristics



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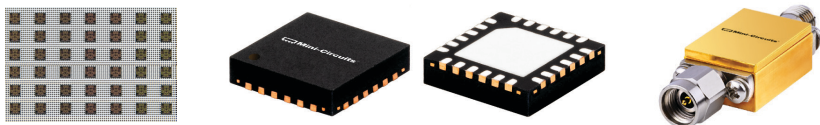
PATENTED TECHNOLOGY

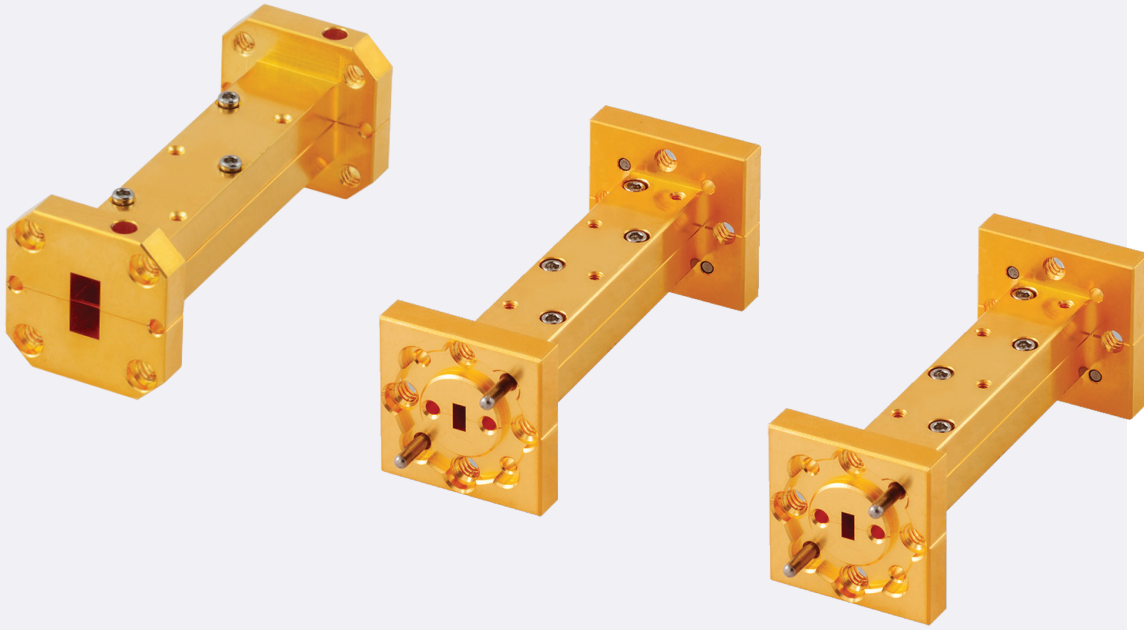
Reflectionless Filters

Eliminate Spurs and Intermods

- 150+ unique models in stock
- Passbands up to 40 GHz
- Ideal for use near sensitive non-linear devices
- Inherently cascadable
- Coaxial, SMT and die formats
- Exclusively available from Mini-Circuits

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27.5 TO 86 GHZ

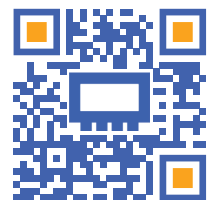
Waveguide Filters

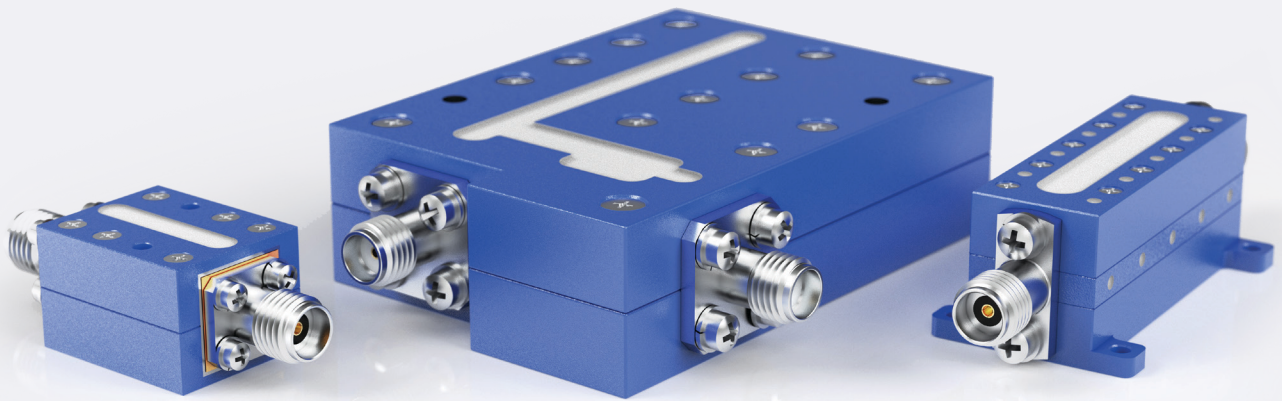
Instrument Grade

- Low Passband Insertion Loss, 1 dB
- High Stopband Rejection, 40 dB
- WR-12, WR-15, & WR-28 Interfaces



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DC TO 3300 MHz

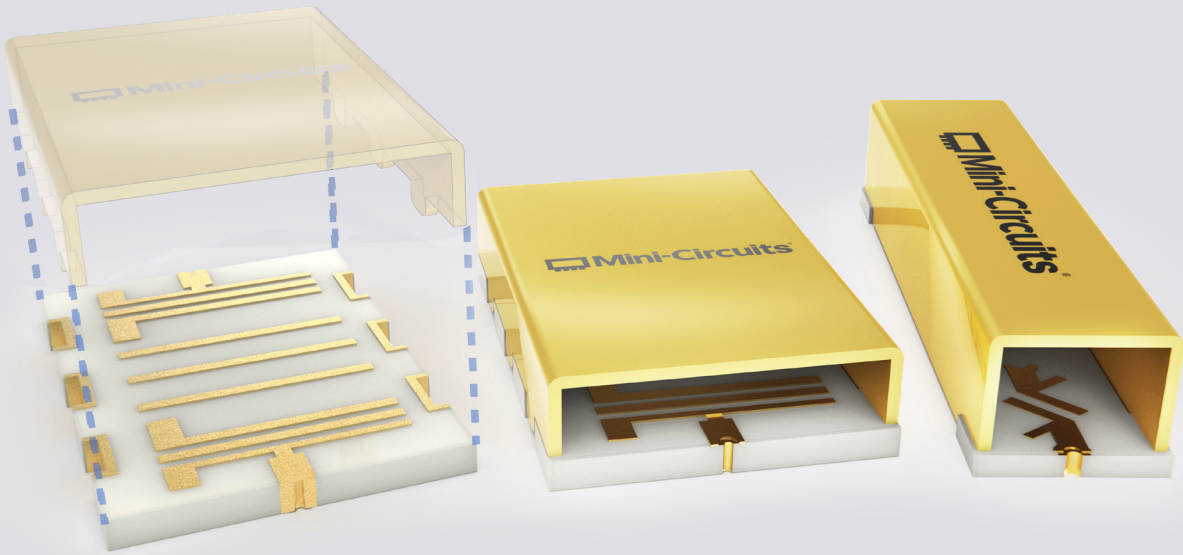
Suspended Substrate Stripline

Ultra-Wide Passband & Stopband Performance

- Connectorized designs with 4 to 40% fractional bandwidth
- Power handling up to 10W
- Flat group delay characteristics

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TECHNICAL ARTICLE

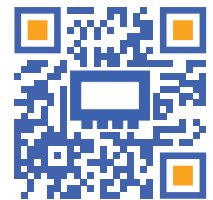
Thin Film Filter Technology

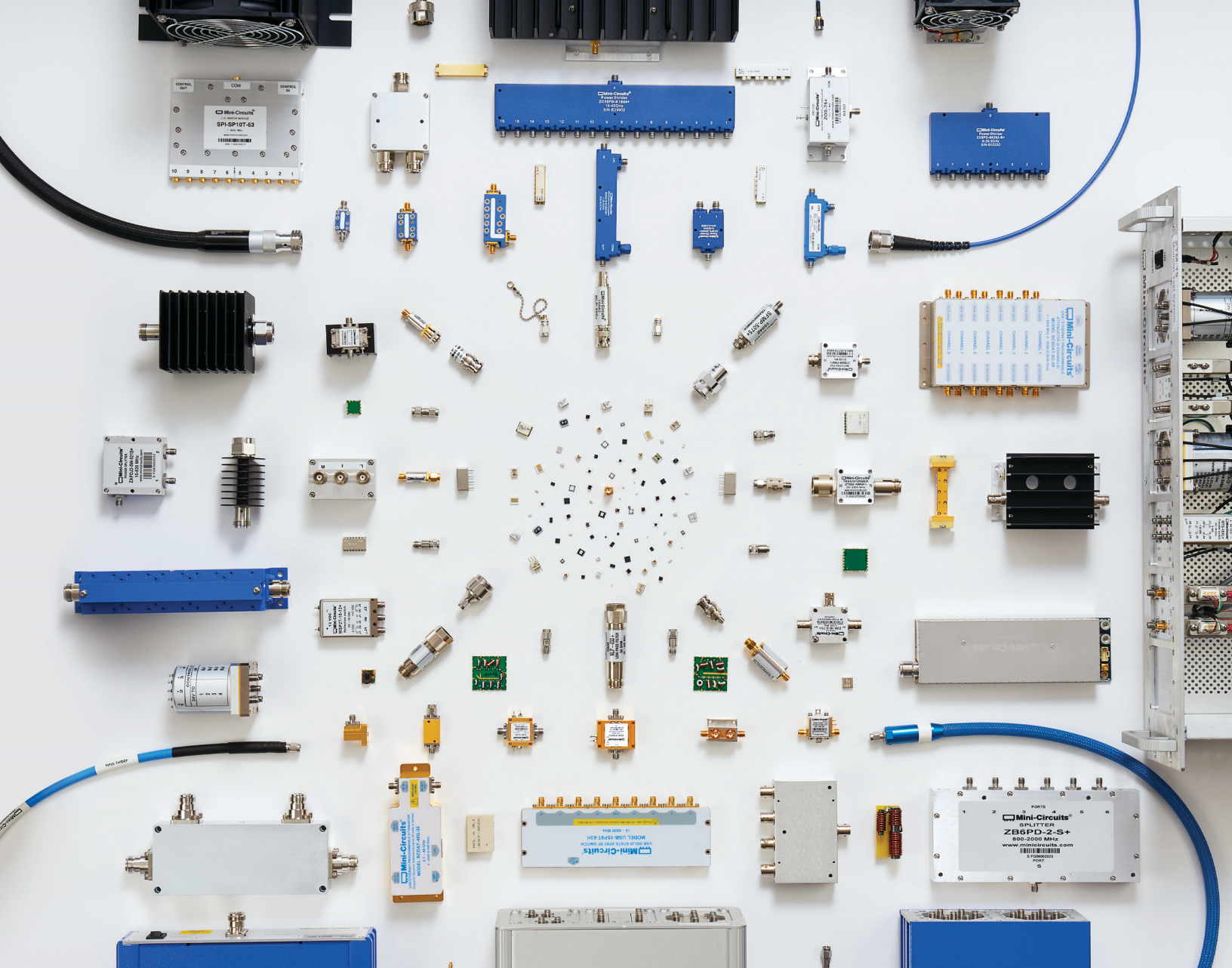
Fabrication, Advantages & Applications

- Passbands from 6 to 30 GHz
- Wide stopbands up to 40 GHz
- High rejection with excellent selectivity
- Small, surface mount form factor
- Temperature stability from -55 to 125 °C

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