






**Materials | Customization | Vertically integrated**



**COMPANY OVERVIEW**

Type of Business: Corporation, State of Delaware	<b>Contacts:</b> Engineering: Bill Johnson (302) 877-8079 Quality: Darren Parsons (302) 877-8079 Production: Bill Atkinson (302) 877-8079 Marketing/Sales: Edward Liang (302) 877-8079 Customer Support: Kirk Franks (302) 877-8079 <a href="mailto:sales@mcv-microwave.com">sales@mcv-microwave.com</a> <a href="http://www.mcv-microwave.com">www.mcv-microwave.com</a>
EIN: 83-2572806	
Size: Small Business	
Category: Self Certified SDB Minority Woman Owned Company, Asian/Indian American (FAR 19.101),	
U.S. Congressional District: Delaware 00	ITAR Controlled
Length of time in present Business: 7+ Years	Established 2018
CAGE CODE: 91NE3	Engineering: 5, Quality 2
Dun & Bradstreet No.: 105886828	NAIC CODES: 334419,334220,334290,334511
UEID Code: NTR7JV94DQS1	
Quality System:AS9100D ISO 9001-2015 NIST 800-171 Compliant	Standard Industrial Classification (SIC) Code:5985,5915,5985,5995,5996,5998, 6625,6920
Type Of Manufacturer: RF Microwave Components & RF Subsystem Manufacturer	   <p><b>MCV Microwave Group:</b></p>
Types of Products: RF Filters (Fixed & Tunable), RF Switches, Switch Filters, Attenuators (Digital & Manual Tunable), Antenna, High Q Dielectric Materials, Subsystems, Power Amplifiers / LNA Cable Assemblies, RF Limiters, Passive Components	
100% ESD Production Floor	Facility Size: 20,000 Square Feet

**RF Cable Assemblies / Adaptor**

- Frequency: DC ~ 150GHz
- Standard, Test & Measurement
- Phase Match / Phase Stable
- Low VSWR
- Low Loss
- Delay Line
- Ruggedized long cable



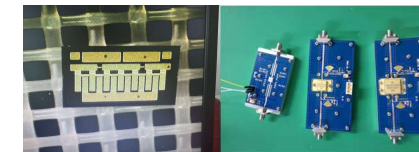
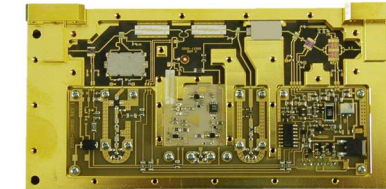
**High Power RF Cable**

- Media Withstanding Voltage: AC≥15000Vrms; DC≥2250Vrms
- Max Power 60A, 1500W
- Frequency: 200MHz~3000MHz



**Thin Film & IMA Sub-Assemblies**

- Thin Film, Wire Bonding / Die Attach / Flip Chip / Hermetic Seal
- Ceramic Substrates / HF PCB
- High Power / Custom assemblies designed with SWaP-C & RF performance in mind
- Applications: Filter, Amplifier, and switch-based IMAs for communications, radar and electronic warfare



**Power Amplifiers / LNA**

- PA Power Handling: 5W ~ 20kW
- Frequency: 10MHz~67GHz
- High Efficiency / High Linearity
- High Gain
- Broadband
- SIP custom package
- Applications: Base Stations, Plasma Chambers, Defense, Space, Linear Accelerator & Commercial



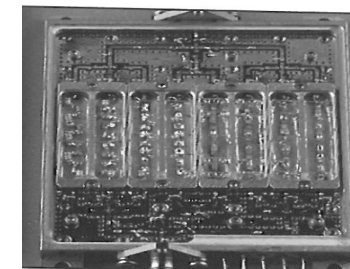
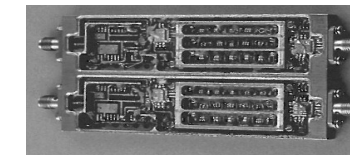
**High-Q Dielectric Materials**

- MDR24: Qxf>300,000 @10GHz
- Dielectric Constant range: 9~194
- TE, TEM, TM mode resonators
- SIR (step impedance resonator) extends frequency to 100MHz
- Thin film metallized substrates with photolithography
- High K ceramic waveguide
- Applications: VCO, DRO, Filter, Patch Antenna, inductor



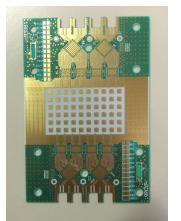
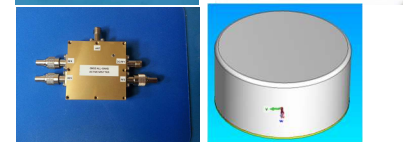
**Switch Filter Banks**

- Coaxial / Pin Diode Switch Filters
- Frequency: 10 MHz to 40 GHz
- No. of Channels: 2 to 16
- Insertion Loss: 2 to 6dB Typ.
- Isolation: >50dB
- Rejection: >60dB



**Antennae**

- Wideband 2-18GHz
- GNSS Full Band for UAV
- Frequency: VHF/UHF/mmWave
- Custom Balun
- High Gain LNA
- Active GNSS Splitter
- Applications: Radar, Phase Array, UAV



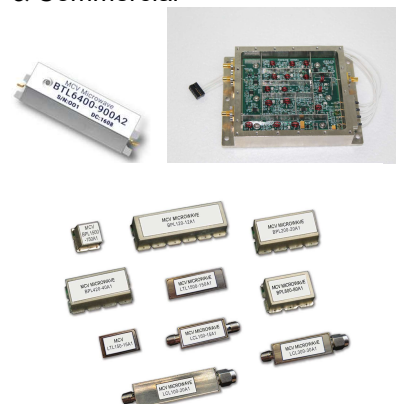
**Combine / Cavity Filters**

- Bandpass/Band Reject / Duplexer / Triplexer / QUAD
- Frequency: 500 MHz to 40 GHz
- Bandwidth: 1% to 35%
- Surface Mount / Connectorized
- Package options available
- Applications: Defense, Space Level & Commercial
- High Power / High Performance Cavity Design



**Lumped Element Filters**

- Highpass / Lowpass / Bandpass / Bandstop; Diplexer; Contiguous MUX / Absorptive
- Frequency: 10MHz to 18 GHz
- Bandwidth: 1% to 35%
- Surface Mount / Connectorized
- High Power / High Performance Design
- 50ohm & 75 ohm
- Package options available
- Applications: Defense, Space Level & Commercial



**Bandpass / Band Reject Filters / Diplexer for SEMICON Test Bench**

- Low Band / Mid Band / High Band / Wideband Filters
- Frequency: 10 MHz to 12 GHz
- Sharp Rolloff
- Contiguous
- Highpass to 12GHz
- Applications: Semiconductor device test bench



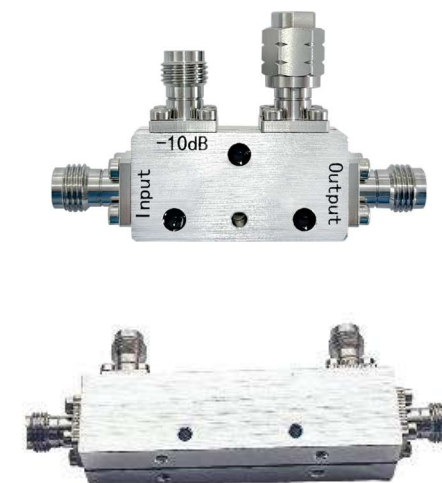
**Passive Components**

- Ultra-Wideband: 600MHz ~ 6GHz
- IP66
- Unequal / Reactive / Wilkinson Dividers
- Hybrid / Directional Couplers
- Power Combiners
- Low PIM Terminations



**Broadband Couplers**

- Connectorized
- Frequency: DC ~ 67GHz
- Low Insertion Loss
- High Power / High Performance



**Digital Step Attenuators**

- Digital & Programmable
- Frequency: Up to 67 GHz
- Attenuator Ranges: 0-11dB, 0-70 dB, 0-110 dB
- Sub-Miniature, Miniature, Bench Mount, Tandem Mounted



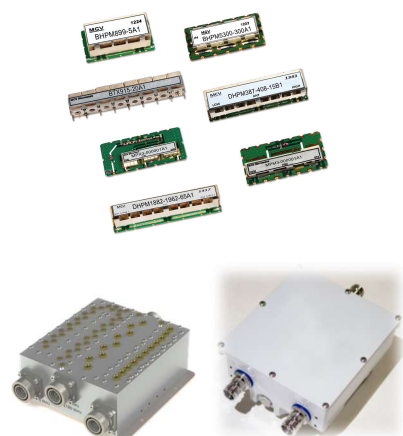
**Cable Filters**

- Lowpass / Bandpass / Highpass / Band Reject
- Frequency: 10 MHz ~ 18 GHz
- Size: Example 0.175 Diameter
- Connectorized Package
- Applications: Free space is utilized for RF filtering in your Systems



**Cellular & Wireless Filters**

- Cellular & Wireless
- Multiband Combiners
- Same band Combiners
- Small Cell / DAS Solutions
- SMD / RF Pin / Drop-in
- Applications: 5G, DAS, GNSS, Altimeter, SATCOM, Public Safety, Military, WiFi6/7



**Interference Mitigation Filters**

- High Power & Pole Mount
- Frequency: DC ~ 40GHz
- Sharp Rolloff: 500kHz, >40dB
- Applications: 5G Base Stations, Spectrum Clearing, Active & Passive Networks, Integrated Amplifiers



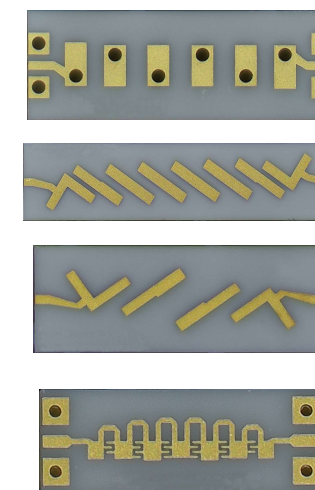
**Coaxial RF Switches**

- SPDT – SP12T – DPDT
- Frequency: DC ~ 110 GHz
- Failsafe Latching & High Power
- Surface Mount / Connectorized
- Package options available
- Applications: Broadcast, SATCOM, Telecom, Defense, IED Jammers, Space Level, Test & Measurements



**Planar Filters**

- Bandpass / Band Reject
- Frequency: 10GHz ~ 40GHz
- Bandwidth: 2 to 10%
- Surface Mount
- Low Insertion Loss
- Compact Size
- Applications: SATCOM, 5G, Defense & Commercial



**Monoblock / Waveguide Filters**

- Bandpass / Band Reject / Multiplex
- Frequency: 100 MHz ~ 40 GHz
- Bandwidth: 2 to 20%
- Surface Mount / Waveguide
- Package options available
- Applications: Base Stations, GPS, SATCOM, Defense & Commercial

