

SOLUTIONS

SERVING THE SPACE, AEROSPACE, DEFENSE, AND COMMERCIAL MARKETS



icrowave roducts roup

a - DOVER company



SUBSYSTEMS



INTEGRATED COSITE **EQUIPMENT**



LEGACY MULTICOUPLER



LTE/WIFI **TEST BOX**



DOWN CONVERTER W/LNA



TEST SYSTEMS







SIGNAL DISTRIBUTION UNIT



18 GHz IMA



2-18 GHz 7-CHANNEL SWITCHED FILTER BANKS

MICROWAVE PRODUCTS GROUP (MPG) **OFFERS CUSTOM AND** STANDARD DESIGNS SUPPORTING SOME OF **TODAY'S MOST** CHALLENGING AEROSPACE, MILITARY, COMMERCIAL, AND SPACE APPLICATIONS.

CERTIFICATIONS

DOMINICAN REPUBLIC ISO 9001:2008

WEST CHESTER AS9100

YORK

SALISBURY AS9100

ISO 9001:2015 ISO 14001:2015

VENTURA AS9100





SURFACE MOUNT

5091

SURFACE

MOUNT



TUNABLE



CO-AXIAL CONNECTORIZED



SWITCHES



PIN DIODE





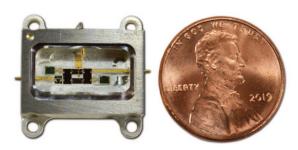
COAXIAL

WAVEGUIDE

4 Band, 2-18 GHz Amplified Switched-Multiplexer

Provides receivers with ability to selectively reject intentional and unintentional interferers to preserve receiver sensitivity.

INNOVATION IN DESIGN



Low Noise Amplifier

Miniaturized low noise amplifiers for high reliability applications.



Digital Attenuator with Low-Loss Bypass

4 independent paths, 45 dB digital attenuator with ultra low-loss bypass up to 5000 MHz.

INTEGRATED MICROWAVE ASSEMBLIES (IMAS)



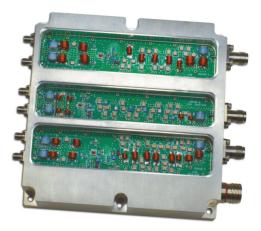
Pre-Filtered GPS LNA

4-Pole pre-filtered response with limiter and < 3 dB noise figure.



Space Matrix T-Switch Assembly

DC-22 GHz low loss switch assembly



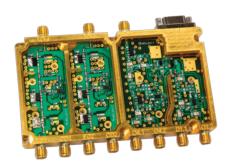
Pre-Filtered LNA with Dual-Outputs

3 independent pre-filtered LNA's with embedded lightning protection for high-performance jet aircraft application.

INTEGRATED MICROWAVE ASSEMBLIES (IMAS)



6-18 GHz, Radar Warning Receiver Building Block for RF and local oscillator signal distribution





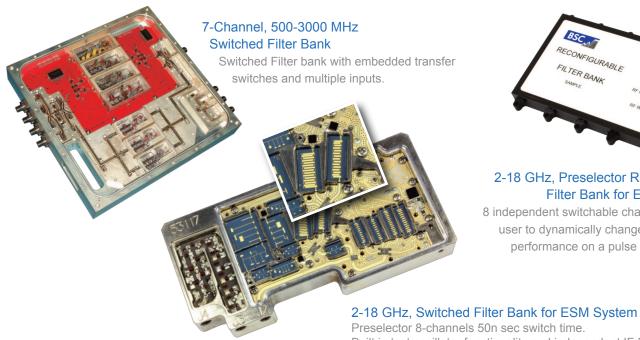
High Power Switched Filter Banks 100W+ VHF/UHF Bands, 50W L Band / S Band



7-Channel, Switched Filter Bank 42-4000 MHz switched filter bank with low in-band video leakage.

RELIABLE. FASTER. MODULAR.

NEXT GENERATION INTEGRATED MICROWAVE ASSEMBLIES





2-18 GHz, Preselector Reconfigurable Filter Bank for ESM receivers

8 independent switchable channels, allowing user to dynamically change the passband performance on a pulse by pulse basis.

Preselector 8-channels 50n sec switch time. Built in test oscillator functionality and independent IF filter

SUBSYSTEMS



Custom Configured Switching Systems

Systems are fully controlled through controller modules with Windows based PC and removable hard drive.

Tunable Multicoupler

- · Basic 4 Port Multicoupler
- Enables 4 Transceivers to Share a Single Antenna • 3 Pole Bandpass Filter
 - 50 dB Isolation at 3 MHz Channel Spacing

MPG IS VERTICALLY INTEGRATED AND IS

WELL-POSITIONED TO DEVELOP AND DELIVER

CUSTOM SUBSYSTEM NEEDS. FROM ONE PIECE

TEST SYSTEMS TO CUSTOM MILITARY APPLICATIONS,

OUR TECHNICAL STAFF IS READY TO ENGAGE.





Digitally Controlled Tunable Rack Assemblies

- · Bandpass and Bandstop Options
- Tunable Center Frequency
- Tunable Bandwidth
- Tune over Multi-octave Ranges
- · Suitable for LTE and WiFi Testing

Switch Matrix Systems

- Electromechanical
- Solid State
- Non-Blocking
- Full Fan In/Out
- · Highly Scalable and Modular
- Trouble-free Maintenance for Field Upgrades and Repair
- 1U/2U/3U/4U Rack Mountable Enclosures





SUBSYSTEMS

CONNECTING

PROTECTING

IS WHAT WE DO



ICE2004 Referenceless Canceller

Intelligently identifies interferer signals and cancels them. Highly integrated design with extensive digital signal processing (DSP) and RF manipulation. Ideal for SIGINT & COMINT applications, aboard ships and ISR aircraft, DF (direction finding) systems and other sensitive RF systems



L-Band

4x48 Solid State Fan-Out Switch; 48x4 Solid State Fan-In Switch; 8x2 Electromechanical Switch; LCD Touch Screen; Ethernet with SNMP Protocol



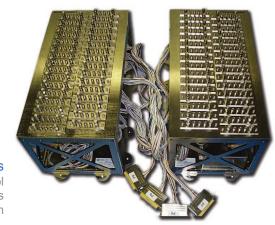
ICE5200 / ICE3009 VHF/UHF Filter/Amplifier

Multi-Band, High Power, High Selectivity Half Duplex Transmit and Receive Filter/Amplifier. Reduces broadband noise in transmit mode of operation and reduces interfering signals at the transceiver's RF input in receive mode. Supports SINCGARS, HAVEQUICK,SATURN waveforms. Optimized for SWaP-C



Custom Configured Systems

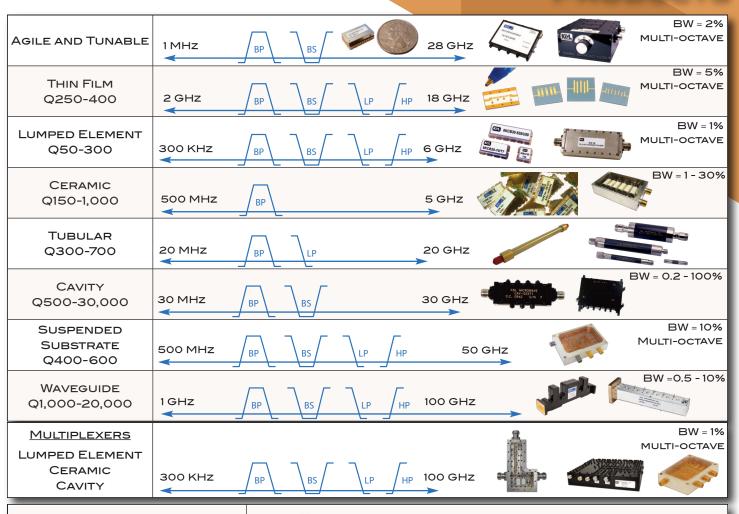
- Switch Matrices
- Filters, Tunable or Fixed
- Attenuators
- Amplifiers



Space Qualified Switch Matrices

- CANBus control
- 64 SPDT Switches
- Operation in Vacuum

ADDITIONAL MPG PRODUCTS



SOLID STATE PIN DIODE

100 MHz - 18 GHz, SPDT - SP8T
SWITCHING SPEED: 100 & 250 NSEC MAX.
HIGH POWER OPTIONS AVAILABLE
SPACE QUALIFIED OPTIONS AVAILABLE



L-BAND, HIGH POWER SP9T SWITCH 37 W HOT SWITCHING







COAXIAL

DC - 26.5 GHz, DC - 40 GHz SPDT, DPDT, SP3T-SP14T3 ACTUATOR: FAILSAFE, NORMALLY OPEN, LATCHING SELF CUTOFF OPTIONS: INTERNAL OR EXTERNAL TERMINATIONS



WR62, WR75, WR90, WR112*
SPTD & DPDT
LATCHING ACTUATOR
*OTHER OPTIONS AVAILABLE
SPACE QUALIFIED OPTIONS AVAILABLE









MINIATURE MECHANICAL AND RELIANT HIGH REPEATABILITY AVAILABLE











SWITCHES ARE NORMALLY CONTROLLED VIA DC POWER, TTL, OR CANBUS MESSAGING; OTHER CONTROL MAY BE AVAILABLE UPON REQUEST.











MICROWAVE PRODUCTS GROUP UNIFIES THE HERITAGE,

PRODUCT LEADERSHIP AND INNOVATION OF FOUR WORLD CLASS BRANDS

TO ENABLE COMMUNICATION, PROVIDE SIGNAL CONTROL AND

TAKE COMMAND ACROSS THE SPECTRUM

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