







SUBSYSTEMS



INTEGRATED COSITE EQUIPMENT



MULTICOUPLER



NTEGRATED MICROWAVE

ASSEMBLIES (IMAS)

LTE/WIFI DOWN CONVERTER **TEST BOX** W/LNA



TEST **SYSTEMS**











SIGNAL DISTRIBUTION

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

SANTO DOMINGO ISO 9001:2015

SALISBURY AS9100D ISO 9001:2015

VENTURA AS9100 ISO-9001 WEST CHESTER AS9100D ISO 9001:2015

YORK AS9100:2015 ISO 14001:2015

JOSCAR REGISTERED







TUNABLE





CO-AXIAI CONNECTORIZED

WAVEGUIDE

SWITCHES



SURFACE

MOUNT



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

INNOVATION

Pre-Filtered GPS LNA

IN DESIGN

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

INTEGRATED MICROWAVE

ASSEMBLIES

(IMAs)

receiver sensitivity.

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.



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.

SURFACE

MOUNT

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.

2-18 GHz, Switched Filter Bank for ESM System

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



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





Custom Configured Switching Systems

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







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

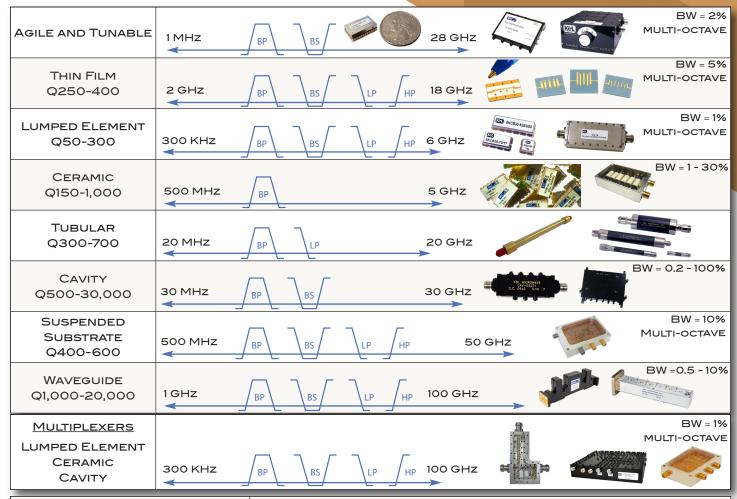


Custom Synthesizers

Direct to Digital Synthesizer
 500 MHz - 26 GHz Frequency of Operation

Constantly Adjustable Full Phase Lock Loop (PLL)

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



SP9T SWITCH







COAXIAL

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

WAVEGUIDE

WR62, WR75, WR90, WR112*

SPTD & DPDT

LATCHING ACTUATOR

*OTHER OPTIONS AVAILABLE

SPACE QUALIFIED OPTIONS AVAILABLE







INIATURE 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 SIX WORLD CLASS BRANDS TO ENABLE COMMUNICATION, PROVIDE SIGNAL CONTROL AND TAKE COMMAND ACROSS THE SPECTRUM

WWW.MPGDOVER.COM • SUPPORT@MPGDOVER.COM