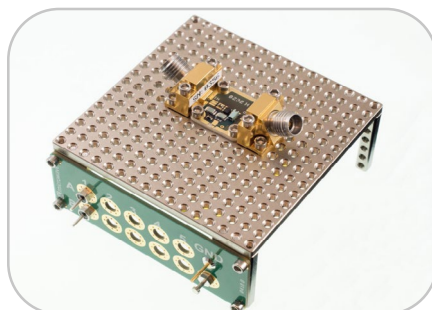
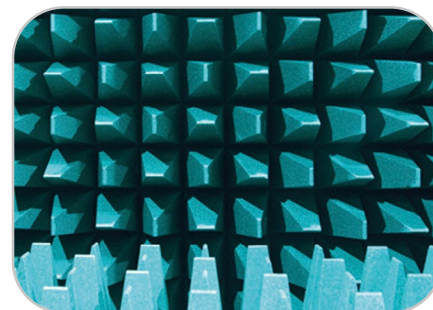


# Castle

MICROWAVE

## RF & Microwave Products Line Card



**The UK's First Choice for the supply of high technology  
and leading-edge RF and Microwave products.**

# RF & Microwave Components & Modules



antenna conceptor

- Antenna: Wi-Fi, Bluetooth, Zigbee
- TETRA, ISM, GSM, GPS, 3G
- 4G & 5G Capabilities
- Custom Solutions



- Quartz Crystal Resonators (Radio, Telemetry, Space)
- Crystal Oscillators (VCXO, TCXO, OCXO, SAW)
- Oscillator Modules  
(Phase Locked, GHz Crystal Controlled Sources, Masterclocks)
- Frequency Reference Units  
(Miniature/Rubidium/Caesium Atomic Clocks, GPS Oscillators)
- Crystal Testing (Pi-Network Crystal Test System)



- Connectorized Passive Devices (1—20 GHz)
- Waveguide Assemblies
- Integrated Assemblies (1—60 GHz)
- EW Sub-Systems



- Coax Switches DC—50GHz
- Pin Diode Switches 0.05—110ghz
- Multi-Function Assemblies DC—110GHz
- HMillimetre Wave Components & Sub Assemblies
- Switch Matrices & Switch Filter Banks
- HMI / MCO Products



- Broadband Solid State Powers Amplifiers
- Frequency Range 0—10GHz
- Power Amplifier Modules



- Waveguide Products to 110GHz
- Isolators & Circulators
- Antenna Feed Systems
- Horns & Antennas



- Coaxial, Waveguide & Drop In Circulators
- Diplexers & Filters
- Waveguide Assemblies
- Power Dividers, Couplers & Splitters
- Precision Manufacturing Services



*Partners from RF to Light*

- RF Power Devices—GaN, GaAs
- Microwave Diodes
- Control Products
- LNA, VCO, Mixers



- Dividers
- Isolators & Circulators
- Fixed / Variable Attenuators
- Hybrids
- Combiners
- Switches, Amplifiers, Oscillators



a GCG Company

- Bandpass, Lowpass, Highpass Notch Filters
- Custom Filter Design
- Diplexers, Triplexers & Multiplexers
- Equalisers



- Tuneable Bandpass Filters
- Duplexers & Dual Duplexer
- GSM-R, Wi-Max
- CDMA. PCS/DCS, PMR/Tetra



- Military Antennas (Land, Sea, Airborne Platforms)
- RFID Antennas
- Train Antennas
- Vehicle Antennas
- Point to Point Directional Dish Antennas

# Test & Measurement & Simulation Tools



- Vector Network Analysers
- Spectrum Analysers
- Power Meters
- Signal Generators
- Bit Error Rate testers
- Optical Measurement Instruments



- AWR Microwave Office Design
- Virtuoso Custom IC Layout Design
- Allegro PCB Design
- Spectre Simulation Platform



- Electric Field Meters
- Magnetic Field Meters
- Field Detectors



- EM Simulation Software
- High Frequency
- EDA & PCB Simulation
- Circuit Simulation
- EMC & EMF
- Charged Particles

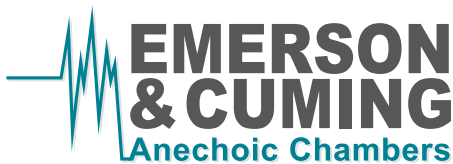


- Microwave RF Characterisation solutions
- Precision Calibration Solutions
- Measurement Services
- Interconnects to 67 Ghz
- Best in Class Stability



- 2.5/3.3/3.5GHz 5G TDD TMA
- BTS & Small Cell Antennas
- Single & Multi Band Combiners
- GSM-R Filters
- KAELUS Cellular Test Equipment

## EMC



- Anechoic Chambers & Design
- Microwave Materials
- Pyramidal, Convuluted & Sheet Absorber
- CRF Absorber Materials ECCOSORB



- EMC Turntables
- Antenna Masts & Stands
- Dynamometers



- RF Absorber
- High Temperature Materials
- RF Absorbing Assemblies



- EMC & Antenna Test Solutions
- Positioning Equipment
- EMC Chamber & Test Cells
- Antennas
- RF Safety



- Shielded Cameras
- Shielded Audio
- AV Recording Capabilities
- CCTV & Audio Systems

# RF & Microwave Components & Modules



- Bidirectional Power Amplifiers
- Preselectors & Tuners
- Power Amplifiers
- RF Up/Down converters
- Low Noise Amplifiers



## polyfet rf devices

- Broadband RF Power MOSFETS
- GaN
- LDMOS Transistors
- Module Capability
- RF Power Modules



SARAS TECHNOLOGY LIMITED

- High Efficiency Amplifiers to 40 GHz
- Linear PAs
- Pulsed Power Amplifiers
- Lumped Element & Ceramic Filters
- Cavity & Machined Structures
- Printed/Suspended Substrate Filters



**SUMITOMO  
ELECTRIC**

- Power GaN
- Low Noise HEMT's
- S-Level
- Power GaAs
- Small Signal
- Pulse & CW



- Isolators & Circulators
- Load & Terminations
- Coaxial, Waveguide & Micro Strip
- Multifunction Devices



**X microwave**

- Rapid Prototyping
- Modular RF Design
- IMA's - Integrated Microwave Assemblies
- Non-Linear Simulation
- Online Simulation Tools

## Interconnect



- Low Cost Cable Assemblies
- Multi-Conductor Wire Assemblies
- Re-Flex™ Cables
- High Temperature Compliant Cables
- High Pressure Compliant Cables
- Tuf-Flex™

**JYEBAO**

- RF Connectors
- RF Adaptors
- RF Test Cable
- Calibration Tools
- Semi Rigid Cable
- Adaptors to 1.85mm

**MEGGITT**

- Silicon Dioxide Microwave Cable Assemblies
- Safety Critical Cables
- High Temperature Cables
- Aero Engine Cables
- Silicon Dioxide Precision Delay Lines



- Ruggedized Fibre Optic Cable Assemblies
- Expanded Beam Optical Connectors
- Custom Design
- Fibre Optic Video Transmission
- Single/Multimode Passive Optical Devices



**SENKO**

SENKO GROUP® Advanced Components

- Fibre Cable & Connectors
- Bespoke Assemblies
- Bespoke Fibre Connectors
- Cleaning Solutions
- Fibre Inspection



- High Reliability Connectors
- High Reliability Cable Assemblies
- High Reliability Adaptors
- High Reliability attenuators



WAKA MANUFACTURING CO., LTD.

- Coaxial Connectors to 110GHz
- Coaxial Adaptors
- Coaxial Components
- Non-Linear Simulation
- Wavelength Adapters
- RF Mini Modules 10—40 Ghz

Castle Microwave offers a wide section of RF & Microwave Components systems and subsystems for all applications.

Additionally we provide design and consultancy services alongside specialist calibration, repair and post sales support.

Castle Microwave operates an ISO 9000 quality assurance system certified by the BSI to ISO 9001:2015 (RS21649)



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