



NEXT GENERATION WOLFSPEED PRODUCTS & TECHNOLOGY UPDATES

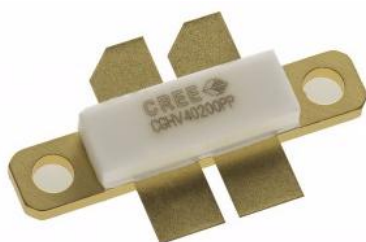
 <p><u>New GaN Power Amplifier & GaN HEMTS</u></p> <ul style="list-style-type: none"> - 200W, DC-3GHz GaN HEMT - 60W, DC-2.7GHz GaN HEMT - 45W, DC-4GHz GaN HEMT - 25W, DC-6GHz, GaN HEMT - 15W, 2.5 - 3.5 GHz, GaN MMIC - 10W, DC-6GHz GaN HEMT 	 <p><u>Appoints New Sales Engineer</u></p> <ul style="list-style-type: none"> - Melcom further strengthens team - 	 <p><u>Appoint Melcom As Exclusive UK Representative</u></p> <ul style="list-style-type: none"> - Thermal interface materials - Superior EMI/Environmental gasket technology - Thermal modelling & machinery - Heat pipe design - Metallised plastic housings 	 <p><u>Collaborates with Keysight Technologies</u></p> <ul style="list-style-type: none"> - R5500 Spectrum Analyser integrated with Keysight 89600 VSA software - cost effective, high performance - SIGNIT, ELINT, Spectrum monitoring applications
 <p><u>New Range Of VNAs</u></p> <ul style="list-style-type: none"> - 2 or 4 port - 100KHz to 110 GHz via extender units - Direct receiver access - PC interface - Cost effective, high performance 	 <p><u>Range of New Broadband Conical Inductors Air Coils</u></p> <ul style="list-style-type: none"> - Miniaturised design - Lowest insertion loss - Broadband upto 67 GHz 	 <p><u>New HS9000B Series Multi Channel RF Synthesiser</u></p> <ul style="list-style-type: none"> - Up to 8 Phase Coherent channels - Improved Comms interfacing - Ultra low phase noise 	



Wolfspeed Release New GaN MMIC & HEMT Power Amplifier

CGHV40200PP

New 200W, 50V, GaN HEMT Transistor



Features

- Up to 3.0 GHz Operation
- 21 dB Small Signal Gain at 1.8 GHz
- 250 W Typical P_{sat}
- 67% Efficiency at P_{sat}
- 50 V Operation
- For General Applications

[Click Here For Datasheet](#)

CGHV27060MP

New 60W, DC-2700MHz, 50V GaN HEMT Transistor

Features (WCDMA)

- Up to 2.7 GHz Operation
- 18.5 dB Gain (14 W P_{ave})
- -35 dBC ACLR (14 W P_{ave})
- 35% Efficiency (14 W P_{ave})



- High Degree of DPD Correction Can Be Applied

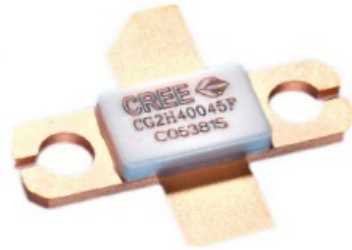
Features (Pulsed)

- 16.5 dB Gain at P_{sat}
- 70% Efficiency at P_{sat}
- 80W at P_{sat}
- GaN HEMT for LTE & Pulsed Radar Applications

[Click Here For Datasheet](#)

CG2H40045

New 45W, DC-4GHz RF Power GaN HEMT Transistor



Features

- Up to 4 GHz Operation
- 18 dB Small Signal Gain at 2.0 GHz
- 55 W Typical P_{sat}
- 60% Efficiency at P_{sat}
- 28 V Operation
- For General Applications

[Click Here For Datasheet](#)

CG2H40025

New 25W, RF Power GaN HEMT Transistor



Features

- Up to 6 GHz Operation
- 17 dB Small Signal Gain at 2.0 GHz
- 30 W Typical P_{sat}
- 65% Efficiency at P_{sat}
- 28 V Operation
- For General Applications

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CG2H40010

10W, DC-6 GHz, RF Power GaN HEMT



Features

- Up to 8 GHz Operation
- 18 dB Small Signal Gain at 2.0 GHz
- 16 dB Small Signal Gain at 4.0 GHz
- 17 W Typical P_{sat}
- 70% Efficiency at P_{sat}
- 28 V Operation
- For General Applications

[Click Here For Datasheet](#)

CMPA2735015S

New 50v, 2.5-3.5 GHz, GaN MMIC Power Amplifier



Features

- 33 dB Small Signal Gain
- 21 W Typical P_{sat}
- Operation up to 50V
- High Breakdown Voltage
- High Temperature Operation
- 5 mm x 5 mm, SMT QFN
- Package
- Ideal for Radar Applications

[Click Here For Datasheet](#)

[View the current Product Brochure](#)



[Contact MELCOM](#) for detailed specification, pricing and availability

LEARN MORE ABOUT WOLFSPEED

Melcom Appoints New Sales Engineer



Melcom are very pleased to announce the appointment of **Dave Moore** as Sales Engineer. Dave has over 5 years sales experience in various market sectors within the RF, Microwave and mmW industry.

His experience further strengthens Melcom's strategy in expanding and developing the business by providing exceptional support and knowledge to our customer base in the UK and Ireland.

Please join us in welcoming him to the Melcom team and we wish him much success in the future.

LEARN MORE ABOUT MELCOM

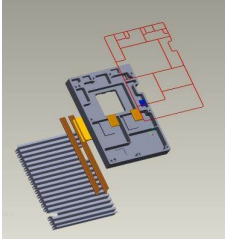


Melcom Appointed As UK Representative & Distributor

TennMax USA is a leader in Environmental & EMI Shielding, Thermal Management Products, Thermal Modelling, Machinery Services and Metallisation of Plastics.

TennMax focus on providing complete solutions by utilising advanced knowledge in Conductive Silicons, Gasketing, Plastic Metallisation, Heat Pipes, Heat Sinks and Phase Change Material.

Turnkey Solution for Thermal Design & Integrated Products



Features

- Free of Charge Thermal Modelling service to customers.
- Combination of design and delivery of an integrated mechanical sub-assembly.

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Dispensed Gasketing (Form-In-Place)

Features

- Computer controlled dispensing of gasket material onto chassis with pinpoint accuracy.



- This technology enables designers to create smaller, lighter, more cost effective mechanical designs.

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Thermal Interface Materials



Features

- Thermal Conductive Gap Filler Pads are impregnated with high performance silicone elastomer & thermal conductive particles.
- Marketing leading thermal conductivity and performance.

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Vacuum Metallisation



Features

- PCAN (Pressure Formed Plastic Can) uses a moulded plastic metallised frame employing a proprietary physical vapour deposition process.
- Suitable for applications where weight reduction is important.

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[Contact MELCOM](#) for detailed specification, pricing and availability

LEARN MORE ABOUT TENNMAX



ThinkRF Collaborates with Keysight Technologies

ThinkRF R5500 Spectrum Analyser is the first, third-party product to directly interface with the Keysight 89600 VSA software.



The R5500 is a compact, PC driven, and remotely deployable ThinkRF R5500 analyser enables the monitoring of complex waveforms in remote locations. The Keysight 89600 VSA software is leveraged for its demodulation and vector signal analysis.

This collaboration provides a low cost, high performance solution to SIGNIT and ELINT applications.

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COPPER MOUNTAIN
TECHNOLOGIES

New Copper Mountain Range Providing:

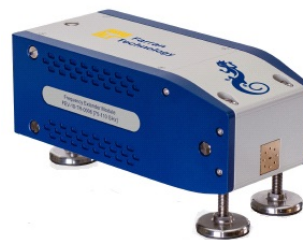
- 2 or 4 Port Measurement
- Direct Receiver Access
- Frequency 100 KHz to 110 GHz via Extender Units
- Dynamic range 145 dB (1 Hz IF BW)
- Measurement Time per Point, 12 Micro-seconds min.typ

All VNAs interface with a PC for a high performance, low cost test solution.

C4420 - CobaltFx Compatible



FEV-10



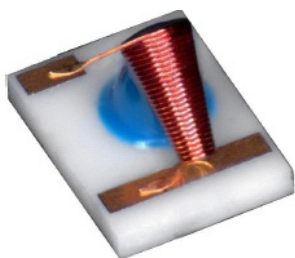
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LEARN MORE ABOUT COPPER MOUNTAIN



New Broadband Conical Inductors & RF, Microwave Air Coils.

Micro CCM Broadband Conical Inductor

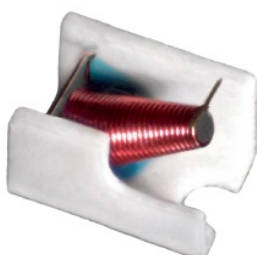


Features

- Substrate Mounted for Chip and Wire Applications, 50 Ohm Microstrip.
- Broadband performance to 40 GHz.
- Inductance: 0.220 uH to 8 uH.
- Low Insertion Loss - 0.35 dB typ.
- Small size 0.060 x 0.060 inches.
- Suitable for Bias Tee Applications.

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Micro SMT Broadband Conical Inductor

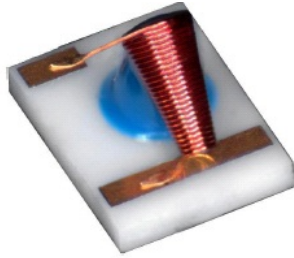


Features

- Smallest SMT Conical Available.
- Broadband performance to beyond 65 GHz.
- SMT style for volume manufacturing.
- Low Insertion Loss -0.35 db.
- Ideal for Fibre Optic Applications.

[Please Click Here For Datasheet](#)

CCM Broadband Conical Inductor



Features

- Substrate Mounted for Chip and Wire Applications, 50 Ohm Microstrip.
- Broadband performance to 40 GHz.
- Inductance: 0.024 to 0.250 μ H
- Low Insertion Loss - 0.35 dB.
- Suitable for Bias Tee Applications.

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Micro Series Broadband Conical Inductor



Features

- Broadband width past 40 GHz.
- Low Inductance with current handling up to 800 mA.
- Small package size from 0.025 x 0.025 inches.
- Low Insertion Loss across band (<0.35 dB Typical).

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MG Series Gold High Frequency Air Coils

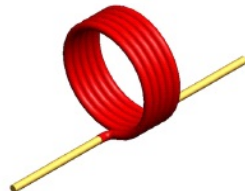


Features

- Micro Sized Pure Gold Air Coils.
- Inductance Values From 8 nH.
- Precision Insulation Removal for Repeatable Mounting.
- Lowest Insertion Loss.
- Ideal for High Frequency Filters.

[Please Click Here For Datasheet](#)

MK Series Copper High Frequency Air Coils



Features

- Micro Sized Gold Plated Copper Coils.
- Inductance Values From 8 nH.
- Precision Insulation Removal For Repeatable Mounting.
- Lowest Insertion Loss.
- Ideal For High Frequency Filters.

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[Contact MELCOM](#) for detailed specification, pricing and availability

LEARN MORE ABOUT PICONICS



Holzworth Presents HS9000B Series, Multi-Channel RF Synthesiser With Improved Comms Interfacing

HS9000B Series multi-channel platform is designed to achieve optimal channel to channel stability across all integrated channel synthesisers via a conductively cooled, fan less enclosure. Phase Coherency between the independently controllable channels.

HS9000B Series Multi-Channel RF Synthesizers

Features

- Up to 8 Phase Coherent channels
- Improved comms interfacing
- Optional 5MHz-160MHz reference input



- Command ports available:
 - USB
 - Ethernet
 - GPIB
 - RS232
- Low phase noise
- +20 dbm channel output power

[Contact MELCOM](#) for detailed specification, pricing and availability

[LEARN MORE ABOUT HOLZWORTH](#)

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