

**UK specialist in RF, Microwave & mmW Components, Modules & Test Solutions**

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[WWW.MELCOM.CO.UK](http://WWW.MELCOM.CO.UK)

+44 (0)1932 565544

**NEWS - MAY 2021**



Melcom is extremely proud to announce 25 years in business and look forward to many more years of continued success! We thank you for your custom throughout the years and will continue to add increasing value in this exciting Industry!

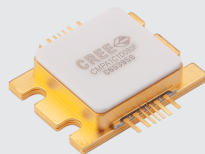
**In this May 2021 Issue:**

- **Wolfspeed** - New GaN MMIC Amplifiers and Transistor in S,C, X and Ku Bands
- **Exxelia** - Launch New Cubic SLP (Electrolytic Capacitors)
- **Holzworth** - Can your Phase Noise Analyser measure its true noise floor?
- **Eravant** - New Attenuator line and Phase Shifters
- **Piconics** - New Modelithics models available for Conical Inductors
- **Werlatone** - New E-Plan Radial Combiners ideal for S, C, X, Ku, Ka Band
- **Exceed Microwave** - Low Pass Waveguide Filters



**New GaN MMIC Amplifiers and Transistor in S,C,X and Ku Bands**

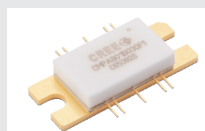
**CMPA1C1D080F**  
90 W, 12.75 - 13.25 GHz, GaN MMIC,  
Power Amplifier



- 90 W Typical PSAT
- >21% Typical Power Added Efficiency
- 25 dB Small Signal Gain
- 20W total output power at -30dBc IM3
- Operation up to 40 V

[Datasheet](#)

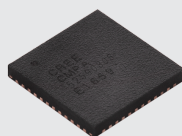
**CMPA801B030F1**  
35 W, 8.0 - 12.0 GHz, GaN MMIC,  
Power Amplifier



- 35 W Typical PSAT
- >36% Typical Power Added Efficiency
- 19 dB Large Signal Gain
- High Temperature Operation

[Datasheet](#)

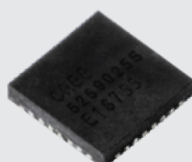
**CMPA5259080S**  
80 W, 5.0 - 5.9 GHz, GaN MMIC,  
Power Amplifier



- >48% Typical Power Added Efficiency
- 29 dB Small Signal Gain
- 110 W Typical PSAT
- Operation up to 40 V
- High Breakdown Voltage
- High Temperature Operation

[Datasheet](#)

**CMPA5259025S**  
40 W, 5.2 - 5.9 GHz, GaN MMIC,  
Power Amplifier

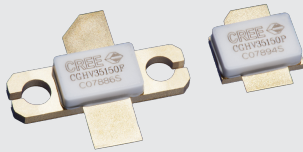


- >53% Typical Power Added Efficiency
- 29 dB Small Signal Gain
- 40 W Typical PSAT
- Operation up to 28 V
- High Breakdown Voltage
- High Temperature Operation

[Datasheet](#)

**CGHV35150F**  
150 W, 2900-3500 MHz, 50 V GaN  
HEMT for S Band Radar Systems

- Rated Power = 150 W @ TCASE = 85°C



- Transient 100  $\mu$ sec - 300  $\mu$ sec @ 20% Duty Cycle
- 13.5 dB Power Gain @ TCASE = 85°C
- 50 % Typical Drain Efficiency @ TCASE = 85°C
- Input Matched
- <0.3 dB Pulsed Amplitude Droop

[Datasheet](#)

[Learn More About Wolfspeed](#)

Contact Melcom - for detailed specification, pricing & availability



The Cubic SLP provides 2 x more capacitance as any other available flat pack on the market in the exact same volume

Cubic SLP



- Capacitance: 100 $\mu$ F to 68000 $\mu$ F
- Voltage: 10V to 450V
- Lifetime: 5000h at 85°C
- Operating Temperature: -55°C to +85°C
- Vibration Resistance: 30g to 50g

[Datasheet](#)

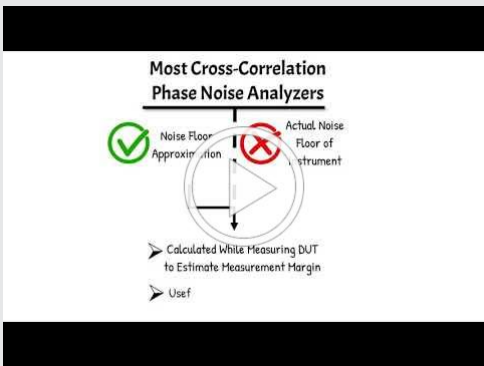
[Learn more about Exxelia](#)

Contact Melcom - for detailed specification, pricing & availability



The Holzworth HA7000 Series Real Time Phase Noise Analysers provide a noise floor approximation like competitive designs, but also have the unique ability to measure the true noise floor of the Analyser itself

Learn more about the basics and importance of noise floor, as well as phase noise measurement capabilities from Holzworth and the T&M industry in this video



[Learn more about Holzworth](#)

Contact Melcom - for detailed specification, pricing & availability

Eravant launch new and improved fixed and level setting

Attenuator line and Phase Shifters



Eravant provide the following Attenuators:

- Frequency range from DC to 330 GHz
- Up to 35 Watts
- Direct Reading Attenuators
- Fixed Attenuators
- Level Setting Attenuators
- Programmable Attenuators
- Voltage Controlled Variable Attenuators

Click here for full range of Attenuators



Eravant provide the following Phase Shifters:

- Frequency range from 6 GHz to 170 GHz
- Electrical Analog Phase Shifters
- Mechanical Tunable Phase Shifters

Click here for full range of Phase Shifters

Click on Eravant's F Band Presentation



Click below for the latest Product Catalogue



Learn more about Eravant

Contact Melcom - for detailed specification, pricing & availability



Modelithics and Piconics partner to provide additional new 3D

geometry models for Conical Inductors



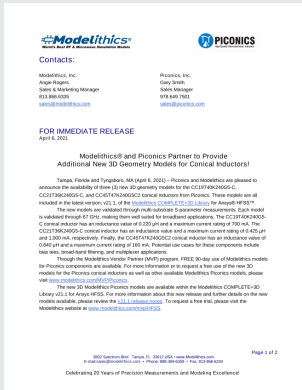
Modelithics and Piconics

Partner to Provide

Additional...

Piconics and Modelithics have announced the availability of three new 3D geometry models for the CC19T40K240G5-C, CC21T36K240G5-C and CC45T47K240G5C2 conical inductors from Piconics. These models are all included in the latest version, v21.1, of...

Read more



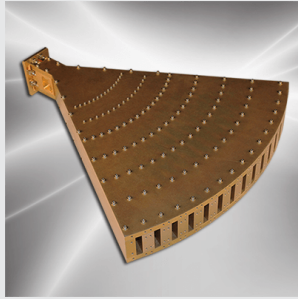
Click here for information on Inductors

Learn more about Piconics

Contact Melcom - for detailed specification, pricing & availability



## Werlatone's E-Plan Radial Combiners ideal for S, C, X, Ku, Ka Bands



### Werlatone's Latest patented RF passive technologies include:

- Higher CW Power and Higher Duty Cycles
- High Power Density and Low Loss
- Space Efficient, Planar Structure

[Read More](#)[Learn more about Werlatone](#)[Contact Melcom - for detailed specification, pricing & availability](#)

## Introducing Low Pass Waveguide Filters



### These Waveguide Filters offer:

- Passes 75-95 GHz with Typical Insertion Loss of 0.6 dB
- 15 dB Return Loss
- 60 dB Rejection at 110 GHz

[Read More](#)[Learn more about Exceed](#)[Contact Melcom - for detailed specification, pricing & availability](#)

Melcom Electronics Ltd | +44(0)1932 565544 | [WWW.MELCOM.CO.UK](http://WWW.MELCOM.CO.UK)



Melcom Electronics Ltd | Quantum House, 59-61 Guildford Street, CHERTSEY, Surrey KT16 9AX United Kingdom

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