

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

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NEW PRODUCT & TECHNOLOGY UPDATES - AUGUST 2021

In this August 2021 Issue:

- **Wolfspeed** - Latest GaN MMIC Amplifiers & Transistors in S,C, Ku Bands
- **Holzworth** - New HSY Series (HSY9004A) RF Synthesiser
- **Eravant** - New Proxi-Flange, Wave-Glide & VNA Calibration Kits
- **Southwest Microwave** - New End Launch Connectors 1.0 mm, 1.85mm 2.40 mm, 2.92 mm SMA
- **Altum RF** - New Power Amplifiers in E & Ka Bands
- **Boonton** - Introducing SGX1000 RF Signal Generators
- **MiCable** - New Passive Components



Latest GaN MMIC Amplifiers and Transistors in S,C and Ku Bands

CMPA5259050S

50 W, 5.0 - 5.9 GHz, GaN MMIC, Power Amplifier

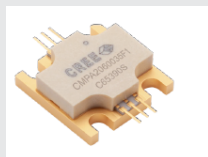


- >50% Typical Power Added Efficiency
- 27 dB Small Signal Gain
- 65 W Typical PSAT • Operation up to 28V
- High Breakdown Voltage
- High Temperature Operation

[Datasheet](#)

CMPA2060035F1

35 W, 2.0 - 6.0 GHz, GaN MMIC Power Amplifier



- >30% Typical Power Added Efficiency
- 30 dB Small Signal Gain
- 36 W Typical PSAT
- Operation up to 28 V
- High Breakdown Voltage
- High Temperature Operation

[Datasheet](#)

CGHV38375F

400 W, 2.75 - 3.75 GHz, Internally-Matched, GaN on SiC Transistor (IM-FET)

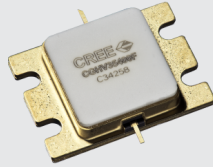


- Full S-Band Radar Coverage
- 400 W Typical PSAT
- 55% Typical Drain Efficiency
- >10 dB Large Signal Gain
- Pulsed and CW Operation

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CGHV35400F

400 W, 2900-3500 MHz, 50 ohm input and output Matched GaN HEMT for S-Band

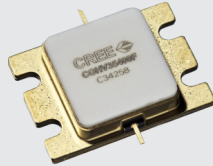


- 2.9 - 3.5 GHz Operation
- 500 W Typical Output Power
- 11 dB Power Gain
- 70% Typical Drain Efficiency
- 50 Ohm Internally Matched
- <0.3 dB Pulsed Amplitude Droop

[Datasheet](#)

CGHV35400F1

400 W, 2.9 - 3.5 GHz, GaN HEMT



- 500 W Typical PSAT
- >65% Typical Drain Efficiency
- 13 dB Large Signal Gain
- High Temperature Operation

[Datasheet](#)

[Learn More About Wolfspeed](#)

[Contact Melcom - for detailed specification, pricing & availability](#)



Holzworth introduce new HSY Series (HSY9004A) RF Synthesiser

Ultra Low Phase Noise RF Synthesiser



- Market leading Phase Noise
- Fully independently tunable channels
- 12GHz Phase Noise: -125dBc/Hz (10kHz offset)
- 24GHz Phase Noise: -122dBc/Hz (10kHz offset)
- 40GHz Phase Noise: -113dBc/Hz (10kHz offset)
- Phase coherent channels for the ultimate in channel-to-channel stability
- Compact IRU format

[Datasheet](#)

[Learn more about Holzworth](#)

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Eravant launch new products

Wave-Glide™ Rail System

Designed to be used with the contactless flange for optimal convenience, the Wave-Glide™ speeds alignment and connection of DUT and test equipment during [S] parameter testing. Especially effective when used with the Proxi-Flange™ range

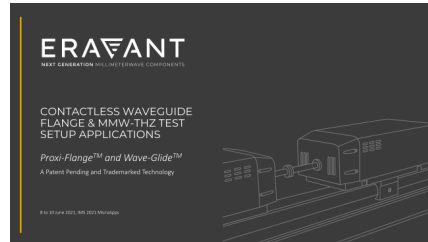
[Read more](#)

Proxi-Flange™ Contactless Flange

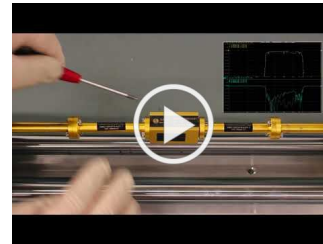
Waveguide section with a novel flange design which forms RF choke when making connection to other waveguide flange to eliminate the requirements of perfect mechanical contact

[Read more](#)

Click on the Proxi-Flange and Wave-Glide Presentation



Click below for the video on Proxi-Flange and Wave-Glide



VNA Calibration Kits (STQ-TO Series)

- Qualified with the major VNA manufacturers
- NIST- traceable calibration certificates available

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New End Launch Connectors 1.0 mm | 1.85 mm | 2.40 mm | 2.92 mm | SMA

Click below for latest product brochure



New Thread-In, Narrow Block Extended Length Bulkhead, Thick Board, Male/ Female

- Robust, reusable, repairable
- Narrow block reduces footprint by 30% for applications where space and weight are limited
- Unique clamping mechanism accommodates board thicknesses up to 300 mils

[Click here for full range of products provided](#)

Learn more about Southwest Microwave

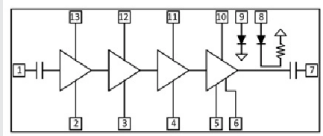
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ALTUM RF

New Power Amplifiers in E and Ka Bands

ARF1006

71-76 GHz, 1 Watt Power Amplifier

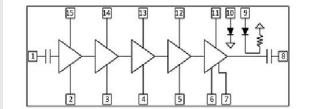


- 71—76 GHz Power Amplifier
- 30 dBm Output Psat
- > 15 dB Input Return Loss
- > 10 dB Output Return Loss

[Read More](#)

ARF1007

81-86 GHz, 1 Watt Power Amplifier

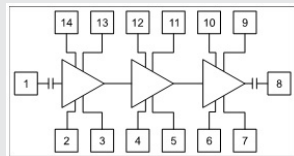


- 81—86 GHz Power Amplifier
- 30 dBm Output Psat
- > 15 dB Input Return Loss
- > 10 dB Output Return Loss

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ARF1013

27-31.5 GHz, 6 Watt Power Amplifier

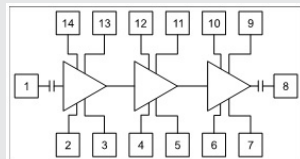


- 27—31.5 GHz GaN Power Amplifier MMIC
- 28 dB Small-Signal Gain
- 18 dB Power Gain
- 6 Watts Output Power
- 30% PAE
- Die Size: 3.00 × 1.75 × 0.10 mm

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ARF1014

(7-31.5 GHz, 12 Watt Power Amplifier



- 27—31.5 GHz GaN Power Amplifier MMIC
- 27.5 dB Small-Signal Gain
- 18 dB Power Gain
- 12 Watts Output Power
- 25% PAE
- > 10 dB Input and Output Return Loss
- Die Size: 3.00 × 3.40 × 0.10 mm

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Learn more about Altum RF

Contact Melcom - for detailed specification, pricing & availability



Introducing SGX1000 RF Signal Generators



- Frequency range: 10 MHz to 18 GHz
- Output power range: -70 to +20 dBm
- AM/FM/θM and pulse modulation
- 10/100 MHz reference input
- Multi-touch, touchscreen
- Lightning fast - Maximum switching speed: 6 μ s /100 μ s
- Ultra-low phase noise (3 GHz, 10 kHz offset) -123 dBc/Hz (typ)
- Ultra-low jitter: 55 fs (typ)
- Excellent amplitude accuracy (as low as -70 dBm): +/-0.25 dB (typ)
- Superior reliability – MTBF (synthesiser module): >240,000

[Datasheet](#)

[Learn more about Boonton](#)

[Contact Melcom - for detailed specification, pricing & availability](#)



Introducing New Passive Components

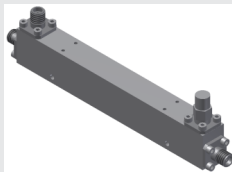
SA-06-69 Rev.A 2-8GHz Bi-Directional Detector



- Bi-Directional Coupling
- Model : SA-06-69
- Frequency : 2~8GHz
- IL : ≤ 0.4 dB
- Coupling : 42 ± 1 dB
- Directivity : ≥ 12 dB
- Main Line VSWR : ≤ 1.4
- Power : 400W

[Datasheet](#)

SA-06-74 Rev.A 9k-26.5GHz 10dB Directional Coupler For Specific Application



- Main Line Freq. : 9K-26.5GHz
- Coupling Freq. : 0.6-26.5GHz
- CW Power(Max.) : 30W
- Dimension : 111.8Lx12.7Wx17.8H (mm)
- Weight(Max.) : 90g
- Operating Temp. : -55 ~ +85°C

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[Learn more about MiCable](#)

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