



**ANNOUNCING OUR NEW RESPONSIVE WEBSITE**

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**Stock Available At Melcom**

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**New ATLAS GPS Disciplined OCXO**

- Low cost CSAC Rubidium alternative -
- User identified 1 PPS offsets -
- Standard & low power versions -
- 40° to + 85° operation -



**New Hybrid Combiner & Absorptive Filters**

- 1-8 GHz, SMT, 60 W, 90° quad hybrid combiner -
- Benefits of an absorptive filter compared to a traditional reflective filter -



**Introducing New Power Chip Termination**

- DC to 5 GHz -
- Excellent impedance match -
- 100 W power handling -



**Launch of New Series Broadband Conical Inductor**

- 50 AWG -
- Broadband width past 40 GHz -
- High inductance -
- Low insertion loss -



**Non Silicon Thermal Paste**

- Auto dispensable thermal interface material -
- Provides high thermal conductivity -
- Pre-cured -
- Ideal for silicon sensitive applications -



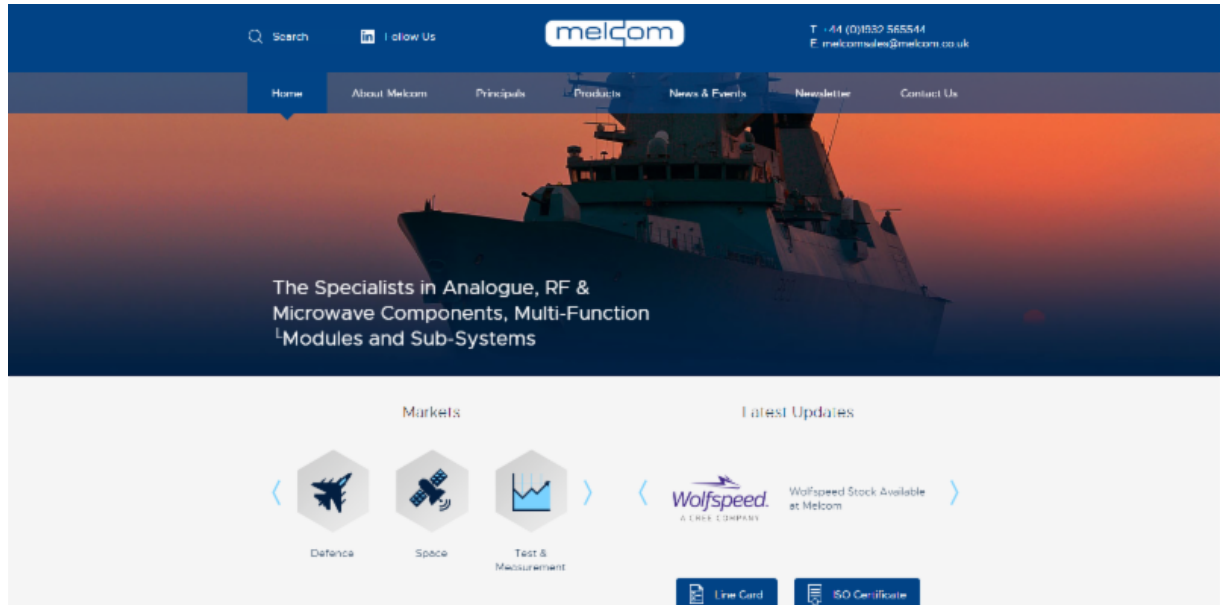
COPPER MOUNTAIN TECHNOLOGIES

**New CobaltFx FET1854**

- Cost effective mmW frequency extension system 18-54 GHz -
- Allows you to build a scalable & affordable 5G testing solution -



**MELCOM ARE PLEASED TO ANNOUNCE THE LAUNCH OF OUR NEW RESPONSIVE WEBSITE**



**Our modern, mobile friendly website provides the visitor with fast navigation to all our Product offerings and Services.**

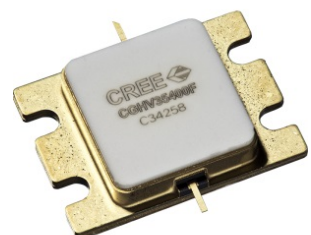
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**WOLFSPEED PRODUCT STOCK AVAILABLE AT MELCOM**

**A variety of product available for fast delivery**

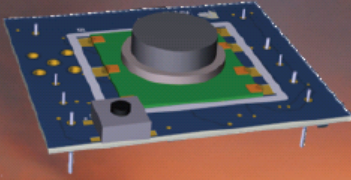


[Contact MELCOM](#) with your requirements

LEARN MORE ABOUT WOLFSPEED



## BLILEY'S 'ATLAS' GPS DISCIPLINED OCXO MODULE FOR USE WITHIN GPS DENIED APPLICATIONS



**atlas 1 PPS**  
GPS disciplined oscillator

**FEATURES**  
Holdover stability:  $\pm 10$  PPB  
Phase noise @ 10 Hz: -125 dBc/Hz  
ADEV (@ 1sec):  $5E-12$   
Start-up / Steady-state power: 0.45W / 0.35W  
Output: RF and 1PPS  
Two-way serial communications  
Dimensions: 1.6"Lx1.4"Wx0.6"H

**APPLICATIONS**  
GPS Denied Network Synchronization (LPI/LPD Communications)  
Assured Timing for Critical Infrastructure (Battlefield Network)  
Autonomous and Semi-Autonomous Weapon System Synchronization

- Low-cost CSAC alternative
- Identical CSAC pin interface
- User-defined 1PPS offsets and steering
- Standard and low power versions

MADE IN USA #BlileyTakesYouFurther Revision 0.2 2018 bliley

- GPS is a crucial element of a wide variety of systems and infrastructure.
- Bliley's low cost oscillator is applicable to both Defence and Commercial use.



[Click Here For Datasheet](#)

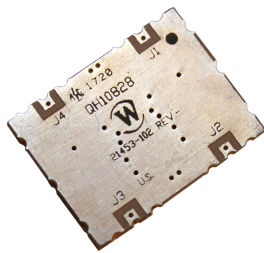
[Contact MELCOM](#) for detailed specification, pricing and availability

LEARN MORE ABOUT BLILEY



## NEW 1GHz - 8GHz, SMT 60 WATT 90° QUAD HYBRID COMBINER

**QH10828**



[Click Here for Datasheet](#)

### Key Specifications

- 1 - 8 GHz
- 150 W CW
- Connectorised or with Tabs
- 0.65 dB Insertion Loss
- 20 dB Isolation
- 0.25 dB MAX Amplitude Balance

## THE BENEFITS OF AN ABSORPTIVE FILTER

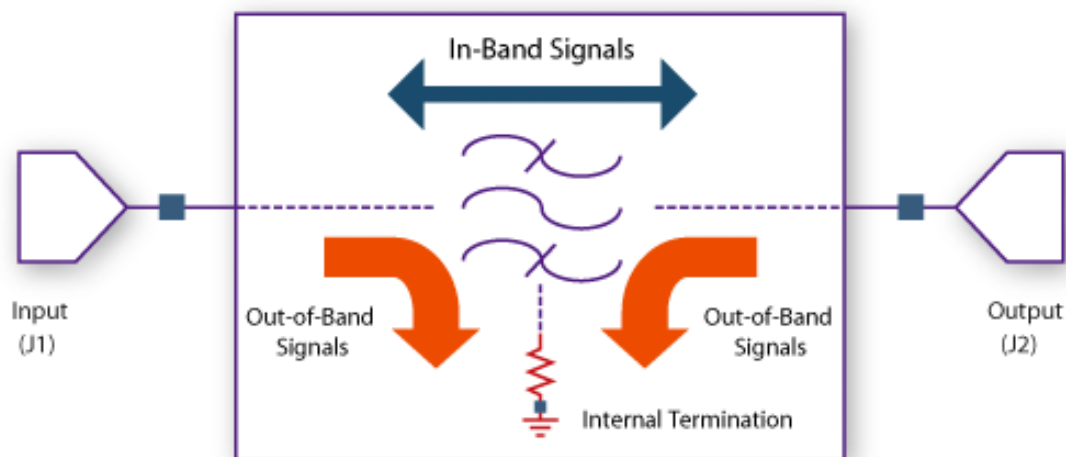


**A traditional reflective filter has the following shortcomings:**

- Reflected signals excite the non-linear behaviour of the PA. This causes the PA to generate more inter-modulation products.
- Reflections also cause instability effects.
- High susceptibility to temperature change.
- Performance degradation at other than 50 Ohms.

**In an absorptive Filter:**

- Out-of-Band signals are NOT reflected back to the source. Instead, the out-of-band signals are sent to an internal termination, preventing them from generating undesirable inter-modulation products.
- This results in additional load VSWR mismatch resistance for RF Systems.



\* Input / Output Characteristic Impedance: 50  $\Omega$

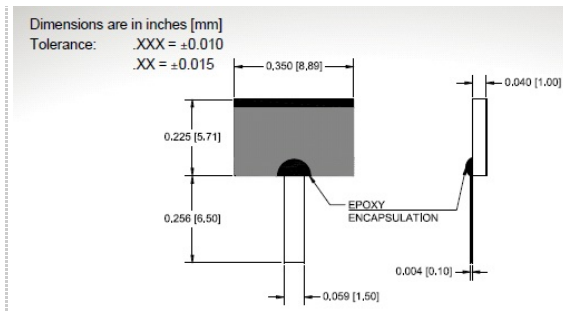
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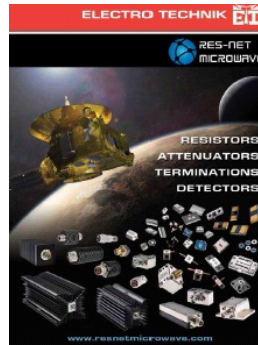
**INTRODUCING RES-NET'S NEW 5 GHz POWER CHIP TERMINATION**

Key Specifications



- DC to 5 GHz
- 100 W power handling
- Excellent impedance match
- Substrate: Aluminium Nitride
- Resistive material: Thick Film
- Tab: Silver
- Tab Attachment: Brazed with Epoxy Encapsulation
- Part No: RPC225-350-4NT50-5E

[Click Here For Datasheet](#)



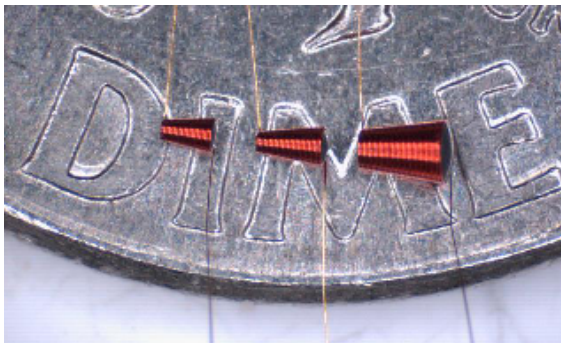
[View current Product Catalogue](#)

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

[LEARN MORE ABOUT RES-NET](#)



**PICONICS LAUNCH NEW 50 AWG SERIES BROADBAND CONICAL INDUCTOR**



#### Key Specifications

- Broadband width past 40 GHz
- High Inductance in a small size
- 50 AWG Wire for low capacitance connections
- Low Insertion Loss across band (<0.35 dB Typical)

[Click Here For Datasheet](#)

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

[LEARN MORE ABOUT PICONICS](#)



## NEW NON SILICON THERMAL JELLY

Dispensable Thermal Conductive Non-Silicon Jelly material provides high thermal conductivity 3 W/m-K. It is fully pre-cured, auto-dispensable thermal interface material designed for silicon-sensitive applications.



Click Here For Datasheets [GP7F7123NS](#) & [GP7F7121INS](#)

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

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COPPER MOUNTAIN  
TECHNOLOGIES

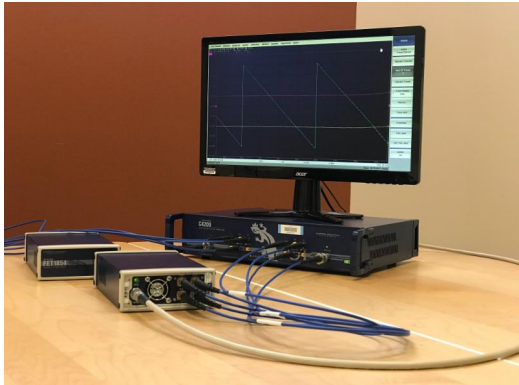
## INTRODUCING THE NEW COBALTFX FET1854

The new CobaltFx is a cost effective mmW frequency extension system that allows you to build a scalable and affordable 5G testing solution from 9 kHz to 110GHz. The FET1854 covers 18-54 GHz.

The C4209 now supports the following bands via separate frequency extender:

- 18 - 54 GHz
- 50 - 75 GHz
- 60 - 90 GHz
- 75 - 110 GHz

- FET1854
- FEV-15
- FEV-12
- FEV-10



[Click Here For Updated CobaltFx Datasheet](#)

[Click Here For Further Information On Relevant Accessories](#)

[Click Here For Further Information on Relevant Calibration Kits](#)

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

[LEARN MORE ABOUT COPPER MOUNTAIN](#)

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Melcom, Quantum House, 59-61 Guildford Street, Chertsey, Surrey KT16 9AX United Kingdom

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