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NEW PRODUCTS DEVELOPMENTS IN RF, MICROWAVE & MMW



New GaN HEMT Transistors for Military Applications

- CG2H30070 70 W, 0.5-3.0 GHz, GaN HEMT -
- CGHV40180 180 W, DC-2 GHz, GaN HEMT -



New Connector Solutions

- High performance multi contact RF connectors -
- New miniaturised edge launch connectors -



Melcom Appointed As Exclusive UK & Ireland Representative

- Microwave attenuators -
- Terminations -
- Thermal jumpers -
- Resistors -
- Chip & coaxial solutions -



Introducing New Hybrid Couplers & 4-Way Combiner/Divider

- 90° Hybrid couplers that cover the full 20-1000 MHz bandwidth -
- 4 way combiner/divider covering the full 1-6 GHz band -
- Components that support 1-6 GHz applications -



D2030 RF Downconverter to Extend Spectrum Analyser Capability to 27-30 GHz 5G

- Enables operators to capture 5G signals by utilising existing equipment -
- Low cost, size and weight solution for spectrum monitoring requirements -



Phase Noise Measurement Articles

- Automated & fast Additive measurement using the Holzworth HX5100 -
- Fast absolute measurement of high performance OCXOs -



Introducing New Line Card

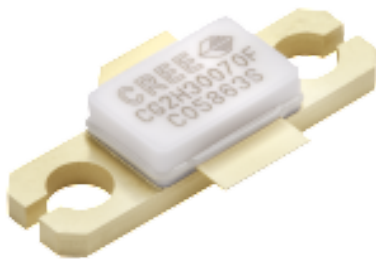




Introducing New GaN HEMT Transistors, Ideal for Military Communications & Electronic Warfare Applications

CG2H30070F

(70 W, 0.5-3.0 GHz, GaN HEMT)



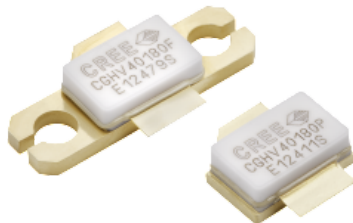
[Click Here for Datasheet](#)

Key Specifications

- Input matched for instantaneous operation from 500 - 3000 MHz
- 70 W (CW) Minimum Pout
- 80 W (CW) Typical Pout
- 16 dB Typical Small Signal Gain
- 28 V Operation
- Ideal for EW, C-IED Jamming, Dismounted/ Man Portable Applications
- Application Circuit Available using 2x CG2H30070F for 100 W (CW) at 85°C Case Temperature

CGHV40180P/F

(180 W, DC-2 GHz, GaN HEMT)



[Click Here for CGHV40180P Datasheet](#)

[Click Here for CGHV40180F Datasheet](#)

Key Specifications

- Input matched
- 180 W (CW) Minimum Pout
- 250 W (CW) Typical Pout
- 24 dB Typical Small Signal Gain
- 28 V and 50 V Operation
- Ideal for Military Communications, Radar, ISM & Public Safety Applications

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

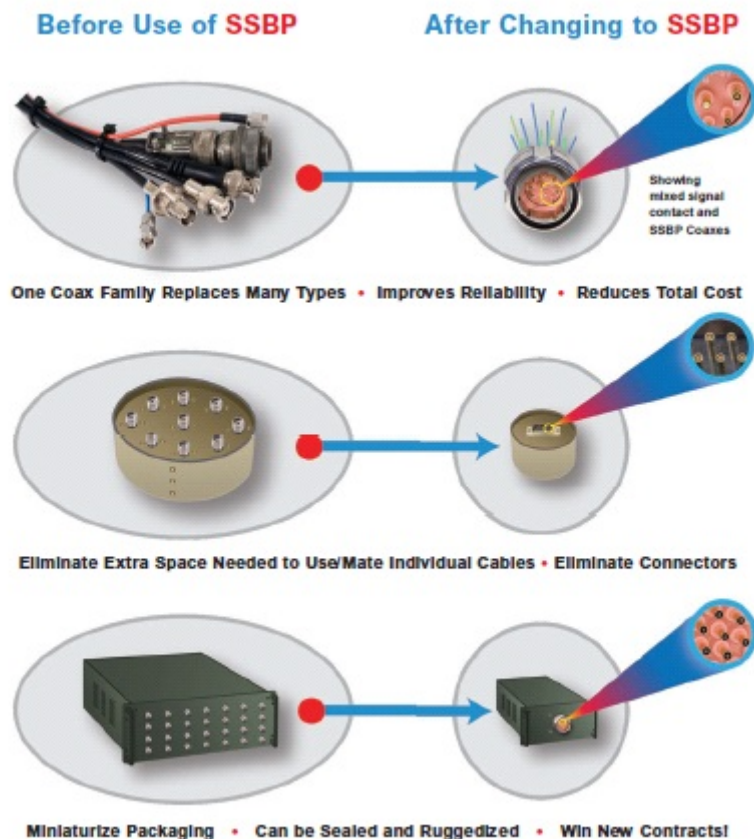
[LEARN MORE ABOUT WOLFSPEED](#)

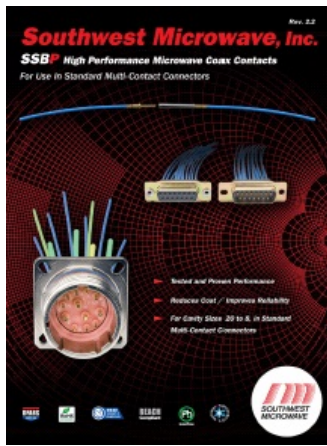


Introducing Southwest Microwave's 'SSBP' High Performance Multi-Contact RF Connectors & New Miniaturised Edge Launch Connectors



- Southwest's high performance Coaxial Pins and Sockets are utilised within standard Connectors such as MIL-STD-38999 or D-Sub.
- Can be combined with non-coax DC Power and Data contacts.
- Excellent EMI Isolation.
- Ideal where size reduction is required.





SSBP Product Catalogue

Southwest's New Miniaturised Edge Launch Connectors



Click on the datasheets below for further information:

[40GHz 2.92mm End Launch](#)

[40GHz Long 2.92mm End Launch](#)

[50GHz 2.40mm End Launch](#)

[67GHz 1.85mm End Launch](#)

[110GHz 1.0mm End Launch](#)

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

[LEARN MORE ABOUT SOUTHWEST](#)



Melcom Appointed as UK and Ireland Representative

Res-Net designs and manufactures:

- **Microwave Attenuators**
- **Terminations**
- **Thermal Jumpers**
- **Resistors**

The Microwave attenuators and terminations range from the small flange type to large 2,000 Watt power attenuators and/or terminations in coaxial format.

- **ISO 9001: 2012 and NASA Specification NPC 200-3.**
- **In-House photo etch and laser trim capabilities and large choice of substrate materials.**



[View current Product Catalogue](#)

LEARN MORE ABOUT RES-NET

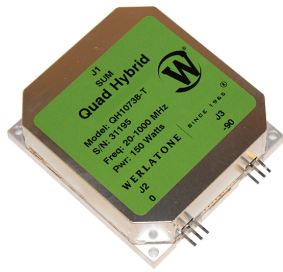


New 90° Hybrid Couplers - Covering the full 20-1000 MHz bandwidth

QH10738-T & QH10594-102
(150 W CW Connectorised)

Key Specifications

- 150 W CW
- Connectorised or with Tabs
- 0.65 dB Insertion Loss

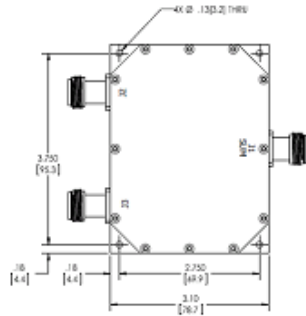


- 20 dB Isolation
- 0.25 dB MAX Amplitude Balance

[Click Here for Tabs Variant](#)

[Click Here for Connectorised Variant](#)

QH11015-10
(300 W CW Connectorised)



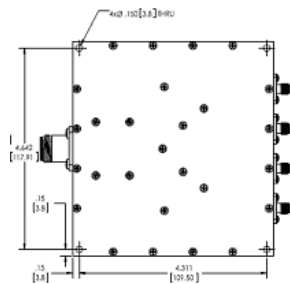
[Click Here for Datasheet](#)

Key Specifications

- 2 Way 90° Hybrid
- 300 W CW
- Connectorised
- 0.8 dB Max Insertion Loss
- 20 dB Isolation MIN
- ± 0.25 dB Amplitude Balance

New 4-Way Combiner/Divider covering the full 1-6 GHz band

D11149-12



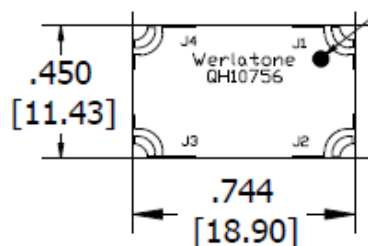
[Click Here for Datasheet](#)

Key Specifications

- 1-6 GHz
- 300 W CW
- Connectorised
- 0.6 dB Max Insertion Loss

Additional new components that support 1-6 GHz applications

QH10756-Ag
90° Hybrid Coupler



[Click Here for Datasheet](#)

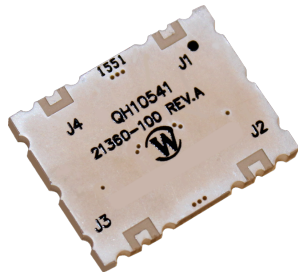
Key Specifications

- 700-6000 MHz
- 60 W CW
- Surface Mount
- 0.55 dB MAX Insertion Loss

QH105410-Ag

Key Specifications

(90° Hybrid Coupler)

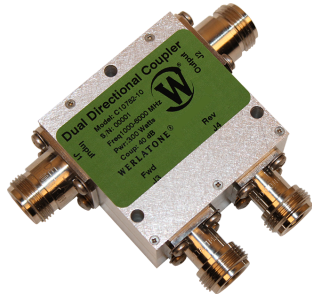


- 700-6000 MHz
- 100 W CW
- Surface Mount
- 0.5 dB Max Insertion Loss

[Click Here for Datasheet](#)

C10762

(Dual Directional Coupler)



Key Specifications

- 1000-6000 MHz
- 300 W CW
- Connectorised
- 40 dB Coupling
- Max 0.2 dB Insertion Loss
- Directivity 20 dB Min

[Click Here for Datasheet](#)

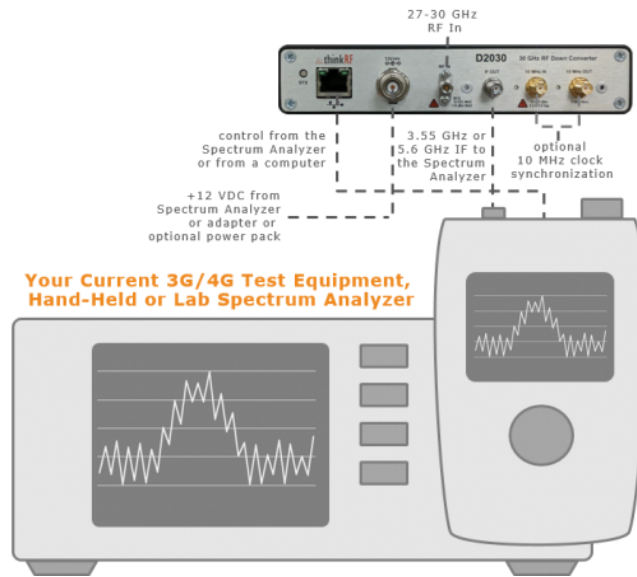
[Contact MELCOM](#) for detailed specification, pricing and availability

LEARN MORE ABOUT WERLATONE



ThinkRF Launch D2030 RF Downconverter to Extend Capability of Existing Spectrum Analysers To Cover 27-30 GHz 5G Spectrum.

The D2030 extends any vendors existing 2G/3G/4G Spectrum Analysers into the 27-30 GHz band without additional significant cost, weight or power requirements.



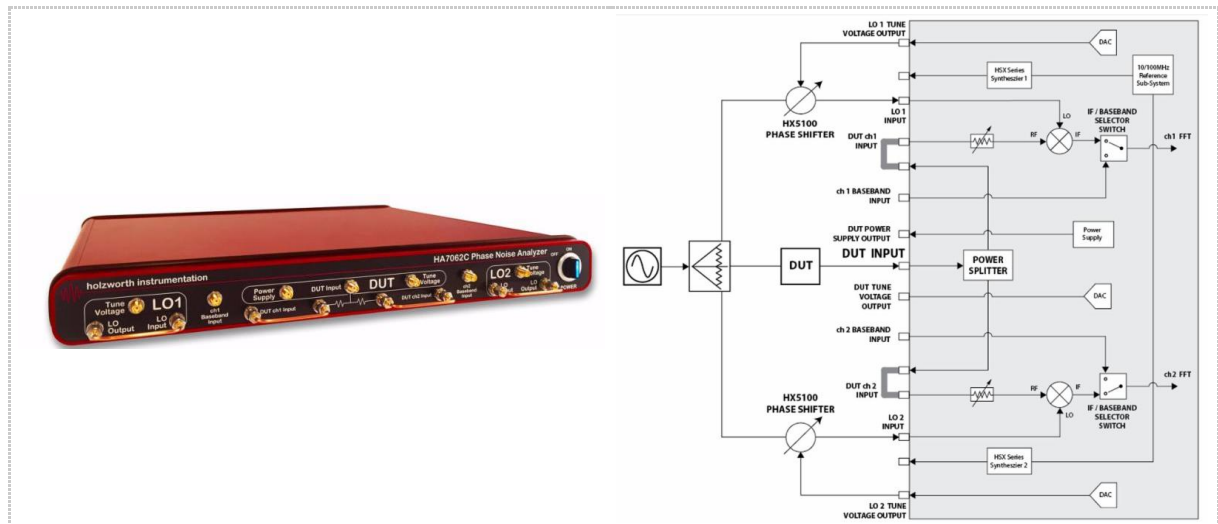
**Your Current 3G/4G Test Equipment,
Hand-Held or Lab Spectrum Analyzer**

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

[CLICK HERE FOR FULL ANNOUNCEMENT](#)



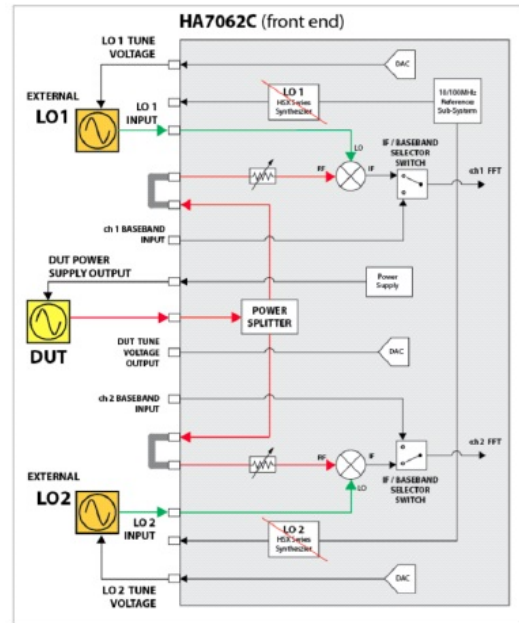
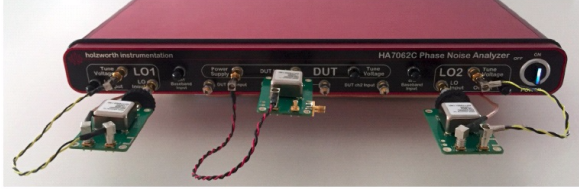
Application Note - Additive Phase Noise Measurement



- Using the Holzworth HX5100 Electronic Phase Shifters, automated additive phase noise measurements are simplified and fast.
- Utilises the Holzworth HA7062C with noise floors at -190 dBc/Hz.
- High performance and cost effective solution for R&D and production applications.

[LEARN MORE ABOUT ADDITIVE PHASE NOISE MEASUREMENT](#)

Fast Phase Noise Measurement of High Performance OCXOs



- The unique architecture of the Holzworth HA7062C enables use of external high performance LOs for fast phase noise measurement at noise floors better than -190 dBc/Hz
- The HA7062C's cross correlation engine provides automated phase noise test to reduce test time and save production cost.
- 'AM Immune' Holzworth hardware design ensures 'AM Noise' does not influence phase noise measurement (Cross Spectral Collapse).

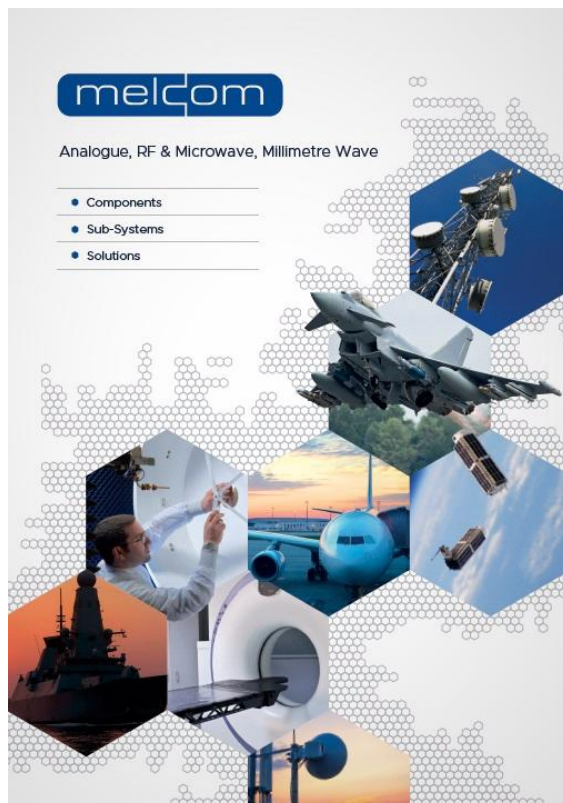
LEARN MORE ABOUT FAST NOISE MEASUREMENT OF HIGH PERFORMANCE OCXOS

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LEARN MORE ABOUT HOLZWORTH

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Introducing the New Melcom Line Card 2017



[View Line Card](#)

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