

The Specialists from DC-mmW

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MELCOM SUPPLY A WIDE RANGE OF RF COMPONENTS FOR THE TELECOMS & COMMUNICATIONS MARKET

The following Principals specialise in Telecoms products:

- **Wolfspeed** - GaN MMICs & Transistors
- **Southwest Microwave** - Connectors
- **Exxelia** - Capacitors, Magnetics & EMI Filters
- **Tennmax** - Thermally Optimal Enclosures & Materials
- **Altum RF** - GaAs MMICs
- **Misotech** - Filters
- **Piconics** - Inductors
- **Nova Microwave** - Isolators & Circulators
- **Resnet** - Resistors & Attenuators
- **Micable** - Cable Assemblies



Broad range of high-performance Microwave Connectors currently available from DC to 110 GHz applicable for the Commercial Telecoms Market

Super SMA Connectors



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2.92 M Connectors



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- High performance
- Best Insertion loss and VSWR
- Reliable, repeatable performance
- Miniature Board to Board also available

[Learn more about Southwest Microwave](#)

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



Offer RF Capacitors and Filters for 3G, 4G and 5G Telecom Infrastructure equipment

Exxelia's high quality RF Passive Components are embedded into all generations of Antennas and Base stations : NPO or P100 High-Q capacitors, EMI and EMC protection filters.

Antennas

NHB SERIES	CH SERIES	SH SERIES
<p>CAPACITANCE 0,3pF > 100pF</p> <p>VOLTAGE DC > 500V > 500V</p> <p>CASE SIZES 1111</p>	<p>CAPACITANCE 0,1pF > 1000pF</p> <p>VOLTAGE DC > 1500V</p> <p>CASE SIZES 0505, 1111</p>	<p>CAPACITANCE 0,2pF > 1000pF</p> <p>VOLTAGE DC > 25V > 1500V</p> <p>CASE SIZES 0402, 0603, 0805, 0505, 1111, 1206, 1210</p>

Base Stations

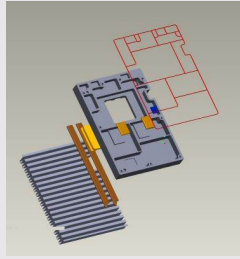
CH SERIES	SH SERIES	FC 030
<p>CAPACITANCE 0,1pF > 1000pF</p> <p>VOLTAGE DC > 1500V</p> <p>CASE SIZES 0505, 1111</p>	<p>CAPACITANCE 0,2pF > 1000pF</p> <p>VOLTAGE DC > 25V > 1500V</p> <p>CASE SIZES 0402, 0603, 0805, 0505, 1111, 1206, 1210</p>	<p>CURRENT max > 10A</p> <p>VOLTAGE 25V > 200V</p> <p>INSERTION LOSS 0dB > 70dB</p>

[Learn more about Exxelia](#)

Contact Melcom - for detailed specification, pricing & availability



Thermal Interface Materials and EMI Shielding Solutions



- Thermal/EMI Solutions
- Form-In Place Gaskets (FIP)
- Metallised Plastics
- Heatsink and Heatpipe capability
- Thermal Materials

Design support from Tennmax and their FIP technology enables size and weight advantage and/or increased PCB area

Free of charge thermal analysis to optimise design

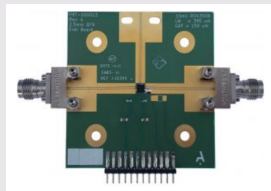
[Learn more](#)

[Learn more about Tennmax](#)

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ALTUM RF

Telecom and 5G mmW Front-end Solutions



- 24-30 GHz, 37-42 GHz
- Optimal wireless infrastructure solutions based on GaAs process from a high-volume, pure-play foundry
- Cost effective solutions with high performance and small form-factor to achieve excellent RF performance
- European source

[Learn more](#)

[Learn more about Altum RF](#)

Contact Melcom - for detailed specification, pricing & availability



High quality Microelectronic Coil Inductors for wide variety of applications in the Telecoms Markets



- High frequency capability beyond 67 GHz
- Fixed and tuneable Inductors
- Engineered custom solutions
- QPL parts availability
- Repeatable, predictable performance

[Learn more](#)

[Learn more about Piconics](#)

Contact Melcom - for detailed specification, pricing & availability



Nova Microwave provide Drop-in and SMD Circulators for Wireless and Telecommunication Applications from DC to 20 GHz

Drop-in Connectors



- Comprehensive range of Circulators for Wireless and Cellular markets
- Stress tested to ensure performance over temperature extremes
- Reliable and cost effective

[Learn more](#)

SMD Circulators



- Offer a range of Surface Mount Circulators in various package sizes and frequency bands
- Provide optimum performance over the temperature range
- All Surface Mount Circulators are temperature cycled from -50°C to +100°C prior to final test

[Learn more](#)

[Learn more about Nova Microwave](#)

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Misotech provide Ceramic and MEMS Filters for Cellular Base Stations, 5G and next generation

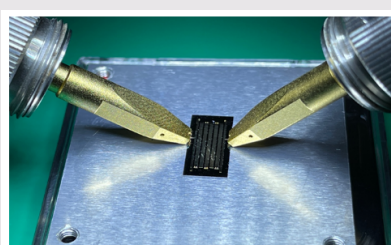
Ceramic Filter



- High Q Factor and Low Insertion Loss
- Wide Frequency range (200 MHz to 6 GHz)
- Notch Filters available
- Surface mount and thru-hole mount
- 50 Ohm standard, 75 Ohm impedance available
- Custom designs available
- Available in tape and reel packing
- Sealed packages available
- Temperature Range: -55 to 85 °C
- Temperature Stability: (±5 ppm/°C)
- Compliant to MIL & RoHs Specs

[Learn more](#)

MEMS Filter



- Precision MEMS process
- High frequency up to 50 GHz
- Silicon substrate
- Au Wire bonding, QFN Package
- RoHs Compliant
- Storage Temperature: -55_+125 °C
- Operating Temperature: -55_+85 °C
- Power Range: +35 dBm Max
- Qualified to MIL standards

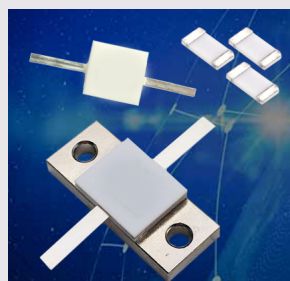
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[Learn more about Misotech](#)

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Provide Surface Mount Chip Resistors for Telcoms market



- Attenuators - frequency range from DC to 40 GHz
- Resistors - frequency range from DC to 40 GHz
- Terminations - frequency range from DC to 30 GHz

[Learn more](#)

[Learn more about Resnet](#)

Contact Melcom - for detailed specification, pricing & availability



Specialise in high performance Cable Assemblies up to 67 GHz



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- Test Cable Assemblies: Cost-effective armoured Precision, temperature stable
- Cable Assemblies for components interconnection: Semi-rigid Cable Assemblies, Hand Formable Cable Assemblies, Flexible Cable Assemblies
- Cable Assemblies for Antenna & Equipment: Low loss phase stable/ super flexible phase stability vs. flex.
- Superbend Cable Assemblies
- MiGbit High Speed Cable & Cable Assemblies
- High power low loss flexible Cable Assemblies
- Multi-pin Connector Assemblies
- Low PIM Cable Assemblies for connection & test

[Learn more about MiCable](#)

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