



ULTRA-WIDEBAND ELITE LINE

Upgrade to 5G with complete confidence and lower TCO

Create a futureproof path for all applications

Microlab's UWB Elite series of low-PIM passive components efficiently combine and distribute signals across any spectrum from 600 MHz to 6 GHz, providing complete flexibility to take advantage of low-, mid- and high-band 5G spectrum today and tomorrow. They're designed to minimize size and weight while optimizing system performance and reliability. And they're pre-approved for use in many wireless carrier and neutral-host networks to accelerate deployments.

Achieve the best possible system performance

Every UWB Elite component benefits from Microlab's acute attention to mechanical design, and is tested and proven to maintain optimal system performance:

- Low insertion loss, low return loss, low PIM and high isolation increase capacity with an improved signal-to-noise ratio, which enables higher order modulation
- Prolonged low-PIM performance mitigates the impact of harsh environmental conditions
- Low insertion loss and low return loss increase coverage by expanding the link budget available for signal propagation and signal density

Because all UWB Elite components deliver guaranteed performance, network designers can better understand how changes in temperature and environment affect system performance.

Get the ultimate combination of performance, reliability and flexibility

To bring the benefits of 5G to more people, devices and applications in more locations, network designers face a myriad of challenges. They must simultaneously ensure networks are cost-effective, meet aggressive deployment schedules, fulfill densification requirements and improve system performance.

With Microlab's broad portfolio of ultra-wideband (UWB) Elite passive components and comprehensive design services, network designers can overcome the diverse range of 5G network deployment obstacles. They have the trusted solutions and services they need to achieve system-level key performance indicators (KPIs) and successfully deploy 5G networks that meet service quality targets in a cost-effective way.

KEY FEATURES AND BENEFITS

Maximize value for money in 5G deployments

- **Covers the entire FR1 frequency range (617-5925MHz)**
Enables use of BRS, DoD, C-Band, CBRS and LTE LAA spectrums
- **Guaranteed low PIM**
Reduces losses to improve performance
- **Microlab quality and reliability**
Minimizes risks, increases lifespan
- **Pre-approvals in place at Tier 1 carriers, neutral hosts and system integrators**
Accelerates deployments
- **Expert design audits & project scoping**
Streamlines deployments and reduces risks to ensure every deployment is successful
- **Small form factor components**
Improves concealment, decreases overall wind load and allows more room for heat dissipation

Lower total cost of ownership for 5G network upgrades with the best performing, highest quality passive components and value-added services that streamline deployments, lower costs and reduce risks.

DIRECTIONAL COUPLERS

PART #	DESCRIPTION
CC-605E	5dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-606E	6dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-607E	7dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-608E	8dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-610E	10dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-613E	13dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-615E	15dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CC-620E	20dB Directional Coupler 617-5925MHz 300W -161dBc 4.3-10 IP67
CA-141E	Hybrid Coupler 2x2 617-5925MHz 100W -161dBc 4.3-10 IP67

SPLITTERS

PART #	DESCRIPTION
D2-76FE	2-way In-line Splitter 617-5925MHz 50W -153dBc 4.3-10 IP67
D3-76FE	3-way In-line Splitter 617-5925MHz 50W -153dBc 4.3-10 IP67
D4-76FE	4-way In-line Splitter 617-5925MHz 50W -153dBc 4.3-10 IP67
D2-83FE	2-way Reactive Splitter 617-5925MHz 300W -161dBc 4.3-10 IP67
D3-83FE	3-way Reactive Splitter 617-5925MHz 300W -161dBc 4.3-10 IP67
D4-83FE	4-way Reactive Splitter 617-5925MHz 300W -161dBc 4.3-10 IP67

ATTENUATORS

PART #	DESCRIPTION
AT-01E	1dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-02E	2dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-03E	3dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-04E	4dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-05E	5dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-06E	6dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-07E	7dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-08E	8dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-09E	9dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-10E	10dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-11E	11dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-12E	12dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-13E	13dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-14E	14dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-15E	15dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-20E	20dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor
AT-30E	30dB Resistive Attenuator DC-6GHz 2W 4.3-10 Indoor

HYBRID COMBINERS

PART #	DESCRIPTION
CM-141E	Hybrid Combiner 4x4 617-5925 MHz 100W -161dBc 4.3-10 IP67
CM-141E-2R	Dual Hybrid Combiner 4X4 617-5925MHz 100W -161dBc 4.3-10 2RU
CM-141E-4R	Quad Hybrid Combiner 4X4 617-5925MHz 100W -161dBc 4.3-10 2RU
CM-680E	Hybrid Combiner 3x3 617-5925MHz 150W -161dBc 4.3-10 IP67

TAPPERS

PART #	DESCRIPTION
DN-04FE	20dB (100:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-14FE	30dB (1000:1) Tapper 350-5930 MHz 500W -161dBc 4.3-10 IP67
DN-34FE	3dB (2:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-44FE	4.8dB (3:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-54FE	6dB (4:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-64FE	8dB (6:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-74FE	10dB (10:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-84FE	13dB (20:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67
DN-94FE	15dB (30:1) Tapper 350-5930MHz 500W -161dBc 4.3-10 IP67

RESISTIVE TERMINATIONS

PART #	DESCRIPTION
TA-2MG	Resistive Termination DC-6GHz 2W 2.2-5 (m) IP67
TA-2MHE	Resistive Termination DC-6GHz 2W 4.3-10 (m) IP65
TA-2MT	Resistive Termination DC-6GHz 2W NEX10 IP67
TB-640ME	Resistive Termination DC-6GHz 40W 4.3-10 IP67 Outdoor

TERMINATIONS

PART #	DESCRIPTION
TK-605BMT	Termination 350-5925MHz 5W -161dBc NEX10 (m) IP67 JMA Boot
TK-605FE	Termination 350-5925MHz 5W -161dBc 4.3-10 (f) IP67
TK-605ME	Termination 350-5925MHz 5W -161dBc 4.3-10 (m) IP67
TK-605MG	Termination 350-5925MHz 5W -161dBc 2.2-5 (m) IP67
TK-605MT	Termination 350-5925MHz 5W -161dBc NEX10 (m) IP67
TK-6100ME	Termination 350-5925MHz 100W -161dBc 4.3-10 (m) IP67
TK-610BMT	Termination 350-5925MHz 10W -161dBc NEX10 (m) IP67 JMA Boot
TK-610FE	Termination 350-5925MHz 10W -161dBc 4.3-10 (f) IP67
TK-610ME	Termination 350-5925MHz 10W -161dBc 4.3-10 (m) IP67
TK-610MG	Termination 350-5925MHz 10W -161dBc 2.2-5 (m) IP67
TK-610MT	Termination 350-5925MHz 10W -161dBc NEX10 (m) IP67
TK-625ME	Termination 350-5925MHz 25W -161dBc 4.3-10 (m) IP67
TK-625MG	Termination 350-5925MHz 25W -161dBc 2.2-5 (m) IP67
TK-640ME	Termination 350-5925MHz 40W -161dBc 4.3-10 (m) IP67
TK-660ME	Termination 350-5925MHz 60W -161dBc 4.3-10 (m) IP67

MULTIPLEXERS

PART #	DESCRIPTION
BK-2030E	Diplexer 3450-3550/3700-4200MHz 150W -161dBc 4.3-10 IP67
BK-2030EW	Dual Diplexer 3450-3550/3700-4200MHz 150W -161dBc 4.3-10 IP67
BK-263E	Diplexer 617-2690/3300-5925 MHz 200/100W -161dBc 4.3-10 IP67
BK-263EQ	Quad Diplexer 617-2690/3300-5925 MHz 200/100W -161dBc 4.3-10 IP67
BK-263EW	Dual Diplexer 617-2690/3300-5925 MHz 200/100W -161dBc 4.3-10 IP67
BK-3008E	Triplexer 617-960/1695-2690/3400-4200MHz 250W -161dBc 4.3-10
BK-3008EW	Dual Triplexer 617-960/1695-2690/3400-4200MHz 250W -161dBc 4.3-10
BK-3009E	Triplexer 617-960 & 1695-2360/2496-2690/3300-4200MHz 250/100W, -161dBc 4.3-10 IP67
BK-3009EW	Dual Triplexer 617-960 & 1695-2360/2496-2690/3300-4200MHz 250/100W, -161dBc 4.3-10 IP67

Date: June 2024 | Revision: C