

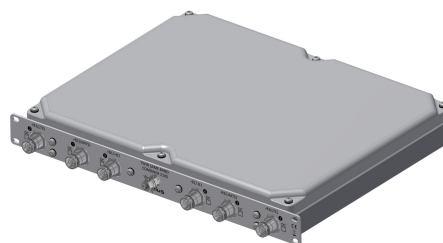
DBC0137F2V6-9

TWIN SAME BAND COMBINER 2100, OUTDOOR

Designed to combine two 2100MHz base stations, the Kaelus DBC0112 provides a low loss combiner with excellent insertion loss and passive inter-modulation performance.

FEATURES

- Combines two 2100MHz BTS onto a single feeder without guard band
- Designed for low passive inter-modulation
- Low insertion loss
- IP67 outdoor environment rated



TECHNICAL SPECIFICATIONS

BAND NAME	B1 (LTE)	B1 (UMTS)
Passband	One 10MHz LTE centered on 1929.9/2119.9	One UMTS channel centered on 1922.8/2112.8
Insertion loss	0.6dB typical, 2.2dB maximum (band edge)	0.9dB typical, 1.5dB maximum (band edge)
EVM	3% typical, 8% maximum	3% typical, 8% maximum (9% maximum -10C to +10C)

ISOLATION COM PORT MUST BE TERMINATED IN 50 OHMS

B1 (LTE) TX frequency range	35dB typical, 30dB minimum
B1 (UMTS) TX frequency range	35dB typical, 30dB minimum
B1 (LTE) RX frequency range	35dB typical, 30dB minimum
B1 (UMTS) RX frequency range	35dB typical, 30dB minimum

ELECTRICAL

Impedance	50Ohms
Return loss	20dB minimum, 24dB typical.
Intermodulation products	-161dBc maximum in Rx bands, with 2 x 20W carriers in Tx bands
Maximum input power	150W (average) / 1.5kW (PEP)

DC / AISG

Passband	0 - 3MHz
Insertion loss	1dB maximum
Return loss	12dB typical
DC current rating	2.5A/50V maximum

ENVIRONMENTAL

For further details of environmental compliance, please contact Kaelus.

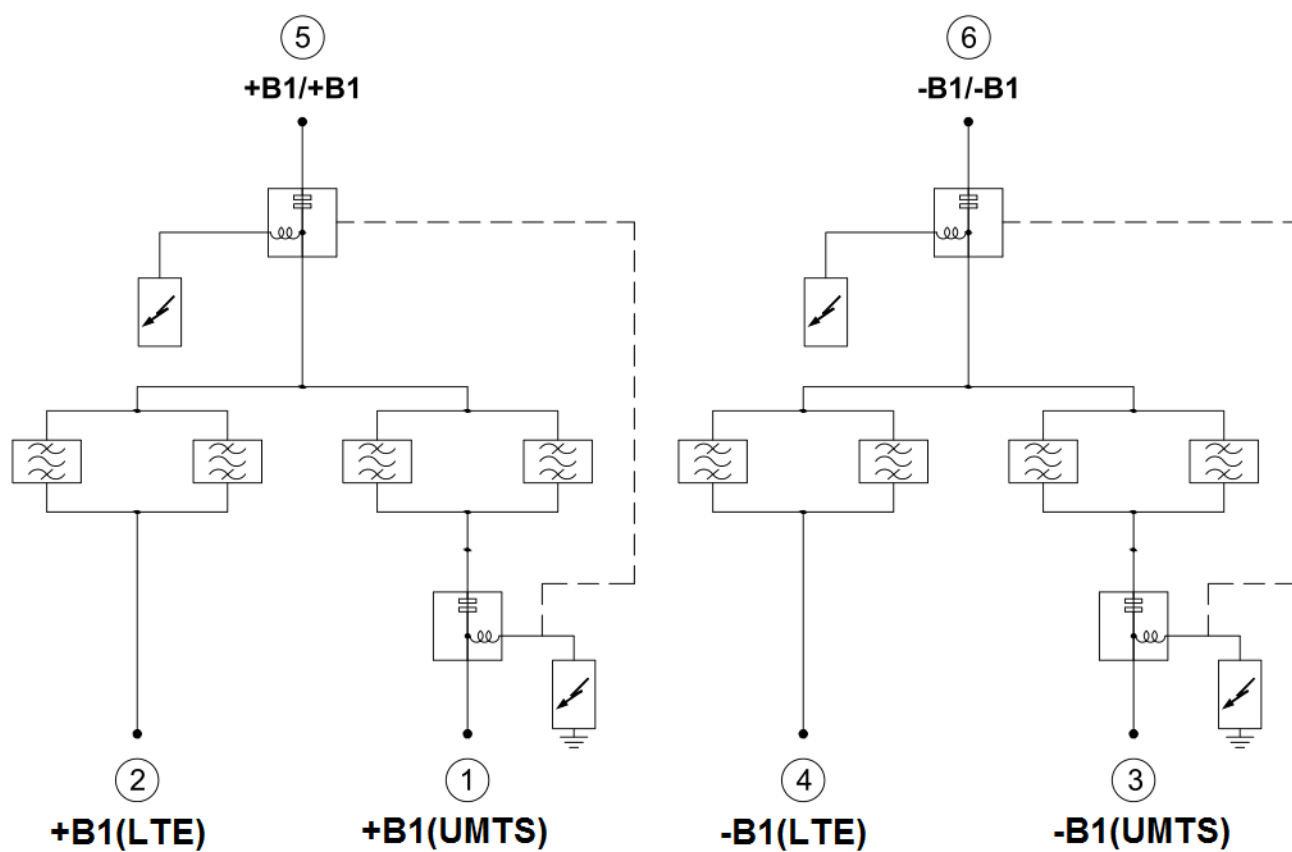
Temperature range	+10°C to +40°C +50°F to +104°F (-10°C to +10°C +14°F to +50°F Relaxed Performance)
Ingress protection	IP67
Altitude	3,000m 10,000ft maximum
Lightning protection	RF: ±5kA maximum (8/20us)
MTBF	>1,000,000 hours
Compliance	RoHS

MECHANICAL	
Dimensions H x D x W	483 x 354 x 60mm 19.02 x 13.94 x 2.36in (excluding connectors)
Weight	13.0kg 28.7lbs estimated
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 6 long neck
Mounting	19" rack, 1.5U

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DBC0137F2V6-9	TWIN SBC 2100 UMTS 2112.8MHz, LTE 2119.2MHz, DC ON UMTS, 4.3-10 CONNECTORS

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

