

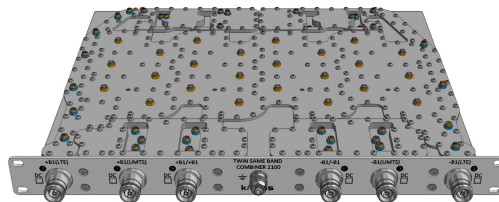
DBC0112F2V6-9

TWIN SAME BAND COMBINER 2100

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



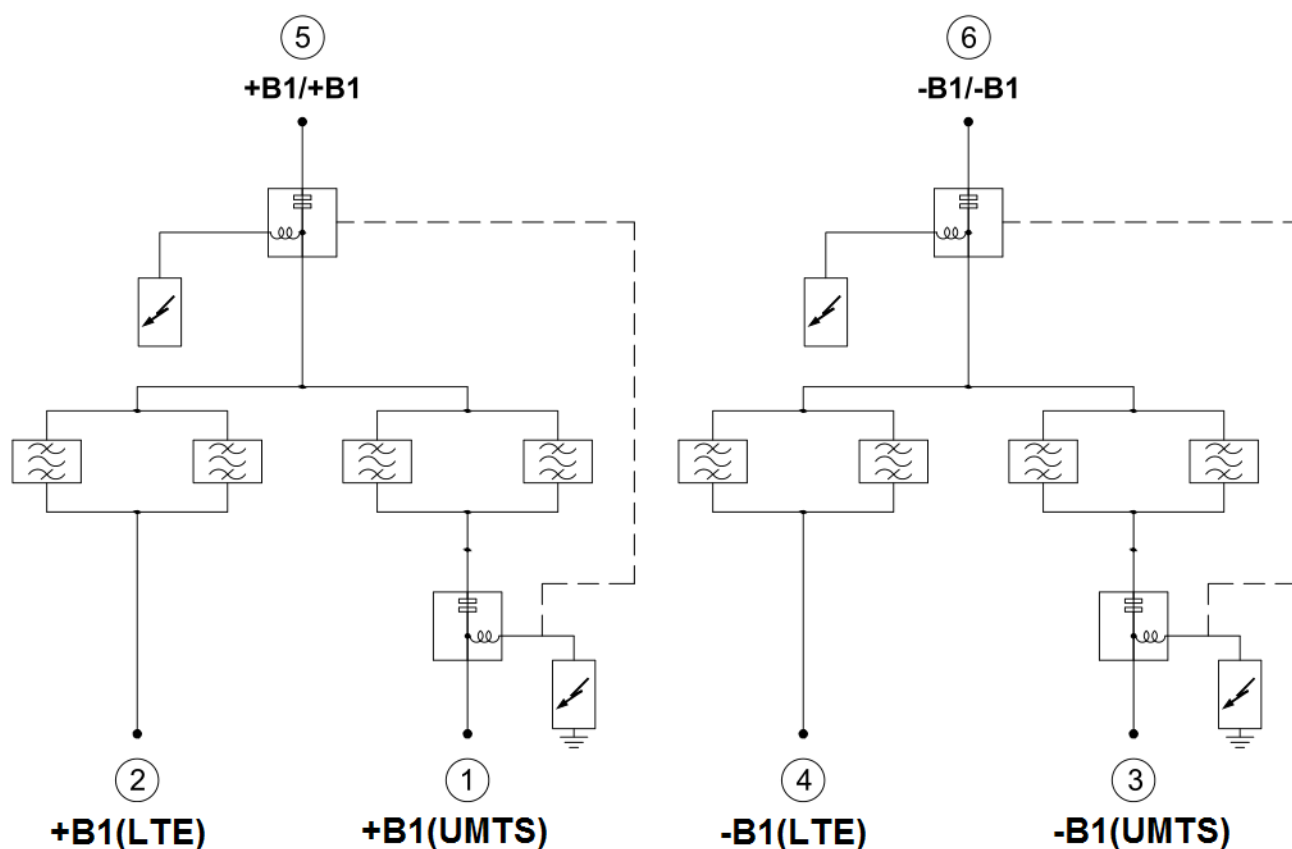
TECHNICAL SPECIFICATIONS

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 (9% maximum -10C to +10C)	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)	
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 345 x 44mm 19.00 x 13.56 x 1.73in (excluding connectors)	
Packaged Dimensions	574 x 484 x 188mm 22.59 x 19.05 x 7.40in	
Weight	10.5kg 23.15lbs estimated	
Finish	Front Panel: Painted, light grey (RAL7035) Housing: unpainted	
Connectors	RF: 4.3-10 (F) x 6 long neck	
Mounting	19" rack, 1U	

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DBC0112F2V5-9	TWIN SBC 2100 UMTS 2112.8MHz, LTE 2119.2MHz, DC ON LTE, 4.3-10 CONNECTORS
DBC0112F2V6-9	TWIN SBC 2100 UMTS 2112.8MHz, LTE 2119.2MHz, DC ON UMTS, 4.3-10 CONNECTORS

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

