

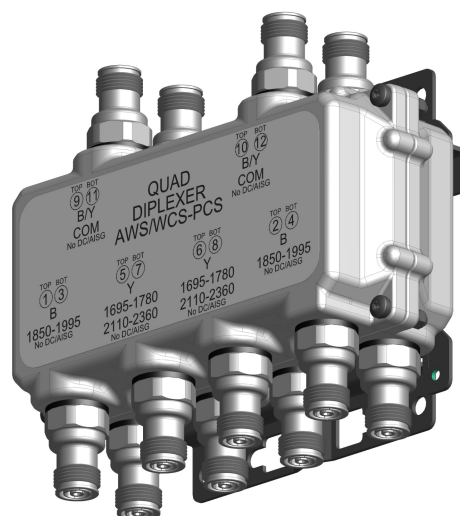
DBC0129F1V14-1

QUAD DIPLEXER PCS/AWS-WCS

Kaelus world proven outdoor solutions provide strong RF performance coupled with rugged features. The DBC0129 dual band combiner combines the AWS/WCS band with PCS. The DBC0129 can be used at either the BTS or antenna end of the feeder.

FEATURES

- Designed for multi-band, co-located sites
- Autosense of DC/AISG allows operation at the bottom or the top of the tower
- Suitable for outdoor and indoor applications
- 4x4 MIMO LTE ready
- Wall or mast mounting



TECHNICAL SPECIFICATIONS

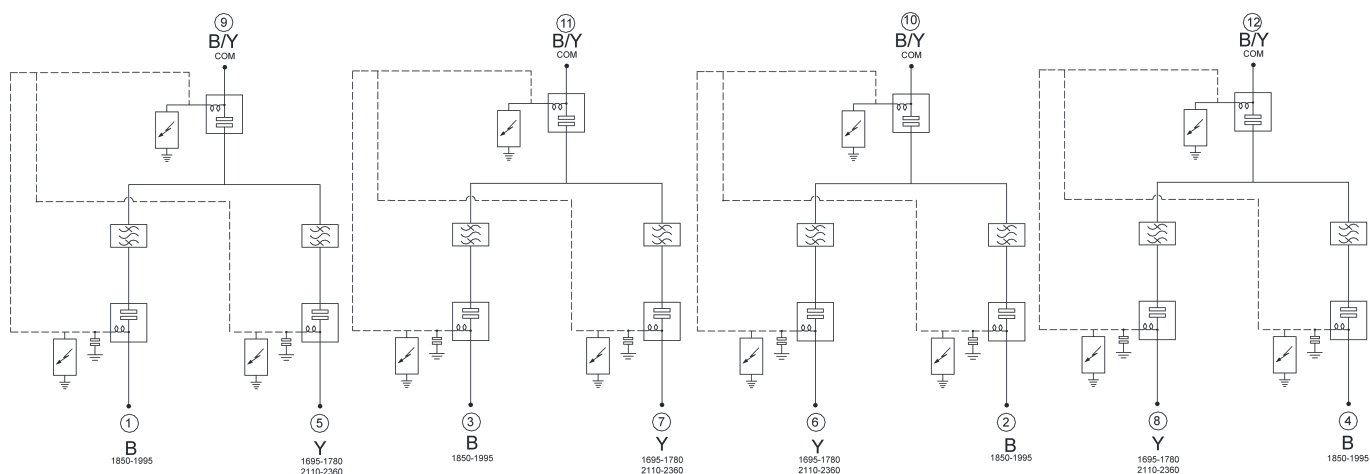
BAND NAME	AWS/WCS	PCS
Passband	1695 - 1780MHz, 2110 - 2360MHz	1850 - 1995MHz
Insertion loss	< 0.2dB typical, < 0.3dB maximum	< 0.25dB typical, < 0.38dB maximum
Return loss	> 20dB	
Maximum input power	100W (average) / 1kW (PEP)	
Intermodulation products	-160dBc minimum at 2 x 43dBm TX Carrier	
Rejection PCS	> 40dB	N/A
Rejection AWS/WCS	N/A	> 40dB
DC / AISG		
Feature	DC-FIXED	
Passband	0 - 3MHz	
Insertion loss, single DC/AISG pass	1dB maximum	
Return loss, single DC/AISG pass	12dB minimum	
Insertion loss, two DC/AISG pass	4.5dB maximum	
Return loss, two DC/AISG pass	6dB typical	
Input voltage range	8 – 31V DC	
DC current rating	3A	
Compliance	3GPP, TS 25.461	
Port priority (combiner mode)	N/A	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-40°C to +65°C -40°F to +149°F	
Ingress protection	IP67	
Lightning protection	5kA maximum (8/20us)	
Compliance	ETS 300 019 1-4 Class 4.1E (OPERATIONAL) ETS 300 019 1-1 Class 1.2 (STORAGE)	

MECHANICAL	
Dimensions H x D x W	210 x 125 x 78mm 8.27 x 3.07 x in
Weight	5kg 11lbs
Finish	Painted, NCS 1502-R
Wind Load	Front 171N, Side 35N At 74m/s (AS/NZS 1170-2-2011 Structural design - Wind actions - Cyclone areas)
Connectors	4.3-10 (F) x 12
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
DBC0129F1V14-1	QUAD 4 in / 8 out	FIXED DC	4.3-10 (F)	DC TO ALL

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

