

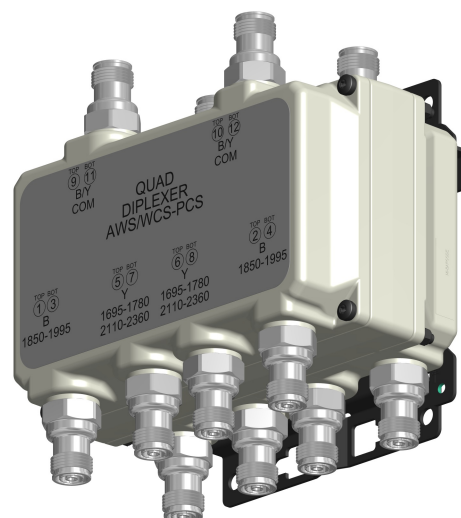
DBC0129F1V71-1

QUAD DIPLEXER AWS-WCS/PCS

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	> 20dB
Maximum input power	100W (average) / 1kW (PEP)	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-AUTOSENSE
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	2A
Compliance	3GPP, TS 25.461
Port priority (combiner mode)	Refer Ordering Information

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)

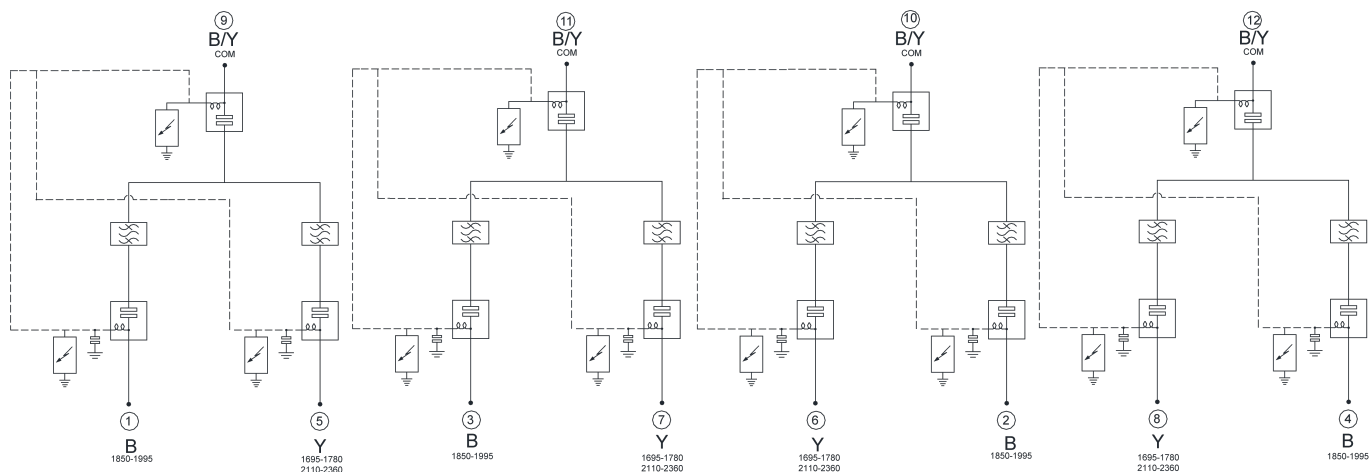
MECHANICAL

Dimensions H x D x W	210 x 125 x 107mm 8.27 x 4.92 x 4.21in
Weight	5kg 11lbs
Finish	Painted, NCS 1502-R
Wind Load	Front 190N, Side 53N 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
DBC0129F1V71-1	QUAD 4 in / 8 out	DC AUTOSENSING WITH LED	4.3-10 (F)	PRIORITY AWS-WCS/PCS
DBC0129F1V72-1	QUAD 4 in / 8 out	DC AUTOSENSING WITH LED	4.3-10 (F)	PRIORITY PCS/AWS-WCS

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

