

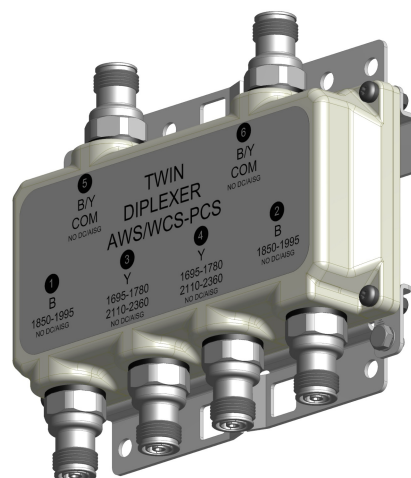
DBC0128F1V14-1

TWIN DIPLEXER AWS/WCS-PCS

Kaelus world proven outdoor solutions provide strong RF performance coupled with rugged features. The DBC0128 dual band combiner combines the AWS/WCS band with PCS. The DBC0128 can be used at either the BTS or antenna end of the feeder.

FEATURES

- Designed for multi-band, co-located sites
- Multiple DC/AISG bypass configurations available with built-in lightning protection
- Suitable for outdoor and indoor applications
- UMTS & 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	
Isolation PCS	> 40dB	N/A
Isolation AWS/WCS	N/A	> 40dB

DC / AISG

Feature	DC-FIXED	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	3A	2A
Compliance	3GPP, TS 25.461	
Port priority (combiner mode)	N/A	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		
Feature	DC-FIXED	DC-AUTOSENSE
Dimensions H x D x W (single unit)	210 x 125 x 54mm 8.27 x 4.92 x 2.16 in	210 x 125 x 54mm 8.27 x 4.92 x 2.16 in
Weight (single unit)	2.5kg 5.5lbs max	
Finish	Painted, NCS 1502-R	
Wind Load	Front 169N, Side 23N (Single) Front 190N, Side 53N (Twin) At 74m/s (AS/NZS 1170-2-2011 Structural design - Wind actions - Cyclone areas)	
Connectors (single unit)	4.3-10 (F) x 4 long neck	
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
DBC0128F1V14-1	TWIN 2 in / 4 out	FIXED DC	4.3-10 (F)	DC TO ALL
DBC0128F1V71-1	TWIN 2 in / 4 out	DC AUTOSENSING WITH LED	4.3-10 (F)	PRIORITY AWS-WCS/PCS
DBC0128F1V72-1	TWIN 2 in / 4 out	DC AUTOSENSING WITH LED	4.3-10 (F)	PRIORITY PCS/AWS-WCS

MECHANICAL BLOCK DIAGRAM

