

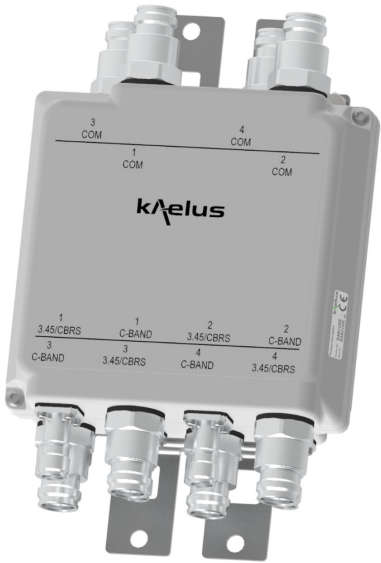
KA-2017-4511

DIPLEXER 3450-3680/3700-3980

The Kaelus KA-2017 is a bi-directional Diplexer designed to combine 3.45GHz/CBRS with C-band, the KA-2017 provides excellent insertion loss and passive intermodulation performance.

FEATURES

- Enables antenna/feeder to combine 3.45GHz/CBRS and C-band
- Designed and 100% tested for low passive intermodulation
- Very low insertion loss
- Small size, lightweight



TECHNICAL SPECIFICATIONS

PORT NAME	3.45GHZ/CBRS	C BAND
Passband	3450 - 3680MHz	3700 - 3980MHz
Insertion loss	0.35dB typical, 1.2dB max	0.35dB typical, 1.1dB max
Return loss	20dB typical 18dB min	
Maximum input power	60W (average) / 600W (PEP)	60W (average) / 600W (PEP)
ELECTRICAL		
Isolation	35dB minimum, 55dB typical	
Impedance	50Ohms	
Intermodulation products	-153dBc with 2 x 20W carriers	
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	
Altitude	3000m/10,000ft maximum	
Lightning protection	RF: ±5kA maximum (8/20us), IEC61312-1	
MTBF	>1,000,000 hours	
MECHANICAL		
Dimensions H x D x W (twin unit)	150 x 37 x158 mm 5.9 x 1.45 x6.2 in	
Dimensions H x D x W (quad unit)	150 x 66 x158 mm 5.9 x 2.6 x 6.2 in	
Weight	Quad: 3.35 kg	
Finish	Painted, light grey (RAL7035)	
Connectors	8x4.3-10 (F) (C-Band, Common) 4x2.2-5 (F) (CBRS)	
Wind Load	Frontal: 24.7N, Lateral: 4.5N. Calculated at 160km/h	

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
KA-2017-2511	TWIN UNIT 4 IN / 2 OUT	BASE PRODUCT	4x4.3-10 (F) (C-Band, Common) 2x2.2-5 (F) (3.45GHz/CBRS)	NO DC
KA-2017-4511	QUAD UNIT 8 IN / 4 OUT	BASE PRODUCT	8x4.3-10 (F) (C-Band, Common) 4x2.2-5 (F) (3.45GHz/CBRS)	NO DC

ELECTRICAL BLOCK DIAGRAM

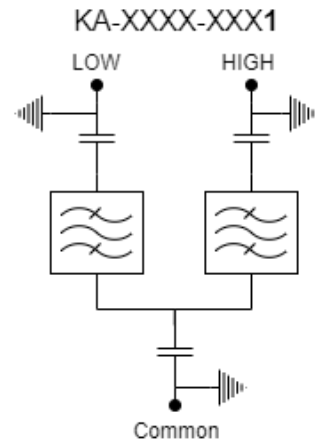
KA-2017-WXYZ where

- **W** denotes the configuration: "2" twin, "4" quad
- **Z** denotes the DC path configuration as per electrical diagram

Note

- **LOW** port is 3450-3680MHz band
- **HIGH** port is 3700-3980MHz band

The Electrical Block Diagram for a single unit is shown:



MECHANICAL BLOCK DIAGRAM

