

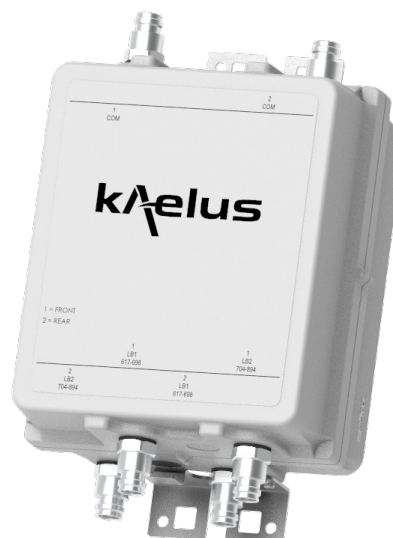
KA-2026

DIPLEXER 600/700-850

The Kaelus KA-2026 is a bi-directional diplexer designed to combine B71 with 700-850 bands. The KA-2026 provides excellent insertion loss.

FEATURES

- Enables antenna sharing for B71 with 700-850
- Narrow guard band to utilize maximum spectrum
- Very low insertion loss
- Small size, lightweight



TECHNICAL SPECIFICATIONS

PORT NAME	617-698	704-894
Passband	617 - 698 MHz	704 - 894 MHz
Insertion loss	0.2 dB typical, 0.8 dB max	0.2 dB typical, 0.8 dB max
Return loss	20 dB typical 18 dB min	
Maximum input power	200W (average)	200W (average)
Intermodulation products	<-160 dBc typ at 2 x +43 dBm TX Carrier (IM3)	<-160 dBc typ at 2 x +43 dBm TX Carrier (IM3)

ELECTRICAL

Isolation	45 dB minimum 729-894 MHz 30 dB minimum 704-729 MHz	45 dB minimum 617-652 MHz 30 dB minimum 663-698 MHz
Impedance	50 Ω	

DC / AISG

DC/AISG path is factory configurable, see ordering information

Passband	0 – 3 MHz
Insertion loss	1 dB maximum
Return loss	12 dB minimum
Input voltage range	± 30 V
DC current rating	3 A continuous
Compliance	3GPP TS 37.461

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 8/20 μs
MTBF	> 1,000,000 Hours
Compliance	ETSI EN 300 019-1-4 class 4.1E, RoHS

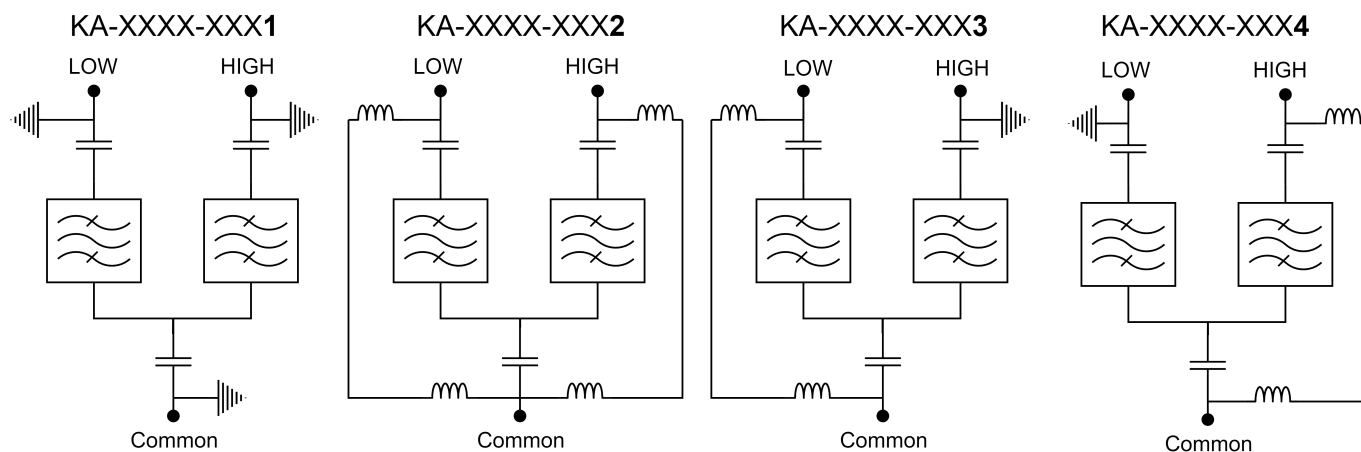
MECHANICAL

Dimensions H x D x W (twin unit)	230 x 270 x 162 mm 9.25 x 10.63 x 6.38 in
Weight	13.9 kg 30.6 lbs
Finish	Painted, NCS 1502-R
Connectors	4.3-10 Female
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
KA-2026-2031	4 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	NO DC
KA-2026-2032	4 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC TO ALL
KA-2026-2033	4 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC TO LOW
KA-2026-2034	4 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC TO HIGH

ELECTRICAL BLOCK DIAGRAM



KA-2026-XXXZ where
Z denotes the DC path variant
LOW port is 617-698 MHz
HIGH port is 704-894 MHz
 Please note if DC ALL is used that all ports which are DC shorted need to have a DC block

MECHANICAL BLOCK DIAGRAM

