

KA-2001

DIPLEXER 555-960/1695-2690

Kaelus world proven outdoor solutions provide strong RF performance coupled with rugged features. The KA-2001 dual band combiner combines the 555-960 MHz and 1695-2690 MHz frequency bands. The KA-2001 can be used at either the BTS or antenna end of the feeder. Single and twin units are available.

FEATURES

- Very low passive intermodulation
- Multiple DC/AISG bypass configurations available with built-in lightning protection
- Single and twin configurations available
- Suitable for outdoor and indoor applications
- UMTS & LTE ready
- Wall or mast mounting



TECHNICAL SPECIFICATIONS

BAND NAME	555 - 960	1695 - 2690
Passband	555 - 960MHz	1695 - 2690MHz
Insertion loss	0.1dB typical (0.2dB maximum)	0.1dB typical (0.2dB maximum)
Return loss	> 20dB	> 20dB
Maximum input power	250W (average) / 2kW (PEP)	250W (average) / 2kW (PEP)
Intermodulation products	-165dBc (2 x 20W carriers, In receive band)	
Rejection high band	50dB min	N/A
Rejection low band	N/A	50dB min

DC / AISG

Feature	DC-FIXED
Compliance	3GPP, TS 25.461
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 – 30V DC
DC current rating	3A
Port priority (combiner mode)	N/A

ENVIRONMENTAL

For further details of environmental compliance, please contact Kaelus.

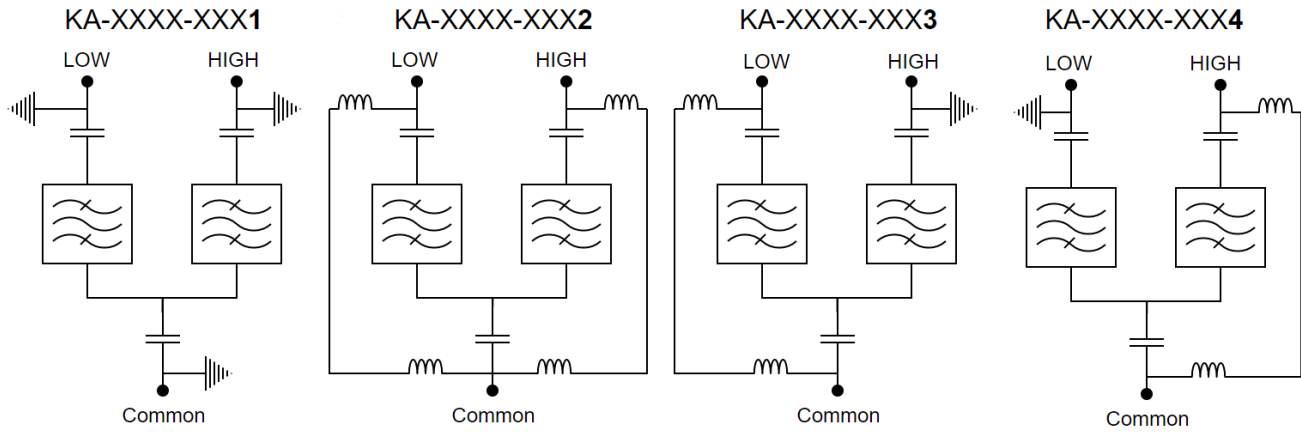
Temperature range	-40°C to +65°C -40°F to +149°F
Ingress protection	IP67
Lightning protection	5kA maximum (8/20us)
MTBF	> 1,000,000 Hours
Compliance	ETS 300 019 1-4 (OPERATIONAL) ETS 300 019 1-1 (STORAGE)

MECHANICAL	
Feature	DC-FIXED
Dimensions H x D x W (single unit)	142 x 55 x 108mm 5.59 x 2.18 x 4.25in
Dimensions H x D x W (twin unit)	142 x 112 x 108mm 5.59 x 4.51 x 4.25in
Weight (single unit)	1.5kg 3.31lbs
Weight (twin unit)	3.1kg 6.83lbs
Finish	Painted, NCS 1502-R
Wind Load	Front 116N, Side 32N (Single) Front 87N, Side 96N (Twin) At 74m/s (AS/NZS 1170-2-2011 Structural design - Wind actions - Cyclone areas)
Connectors	4.3-10 (F) x 3 long neck (single unit) 4.3-10 (F) x 6 long neck (twin unit)
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-2001-1031	SINGLE 1 in /2 out	FIXED DC	4.3-10 (F)
KA-2001-2031	TWIN 2 in /4 out	FIXED DC	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

