

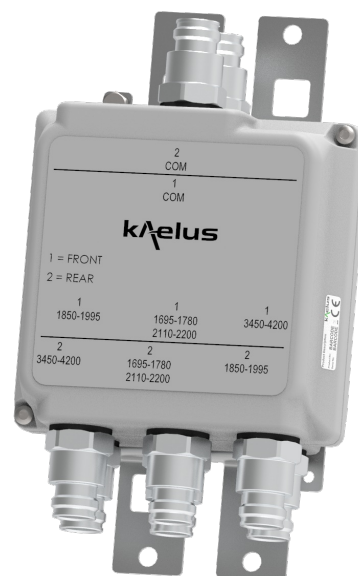
KA-3005

TRIPLEXER AWS/PCS/C-BAND

The Kaelus KA-3005 is a bi-directional Triplexer, designed to combine or split AWS, PCS and 3.5GHz bands. The KA-3005 provides low insertion loss and high return loss with excellent passive inter-modulation performance in an extremely small and lightweight IP67 capable package

FEATURES

- Enables antenna & coax sharing for AWS, PCS and C-band systems
- Compact & lightweight - perfect for Small Cell applications
- Low insertion loss & high return loss
- Low passive IM performance
- Twin and quad models available
- Provisions for wall or mast mounting



TECHNICAL SPECIFICATIONS

BAND NAME	PCS- B25	AWS- B66	C-BAND
Passband	1850 - 1995 MHz	1695 - 1780 & 2110 - 2200 MHz	3450 - 4200 MHz
Insertion loss	<0.3dB typical, 0.4dB max	<0.3dB typical, 0.4dB max	<0.2dB typical, 0.3dB max
Return loss	20dB typical, 18dB minimum		
Maximum input power	80W (average) / 800W (PEP)	80W (average) / 800W (PEP)	80W (average) / 800W (PEP)
Intermodulation products	<-160dBc typ at 2 x +43dBm TX Carrier (IM3)	<-160dBc typ at 2 x +43dBm TX Carrier (IM7)	<-153dBc typ at 2 x +43dBm TX Carrier (IM3)
Rejection	40dB minimum 1695 - 1780 MHz 2110 - 2200&3450-4200 MHz	40dB minimum 1850 - 1995 MHz 3450-4200 MHz	40dB minimum 1695 - 2200 MHz

ELECTRICAL

Impedance	50Ohms
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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 300 019-1-4 Class 4.1 ETSI 300 019-2-3 Class 3.2

DC / AISG

DC/AISG path is factory configurable, see ordering information

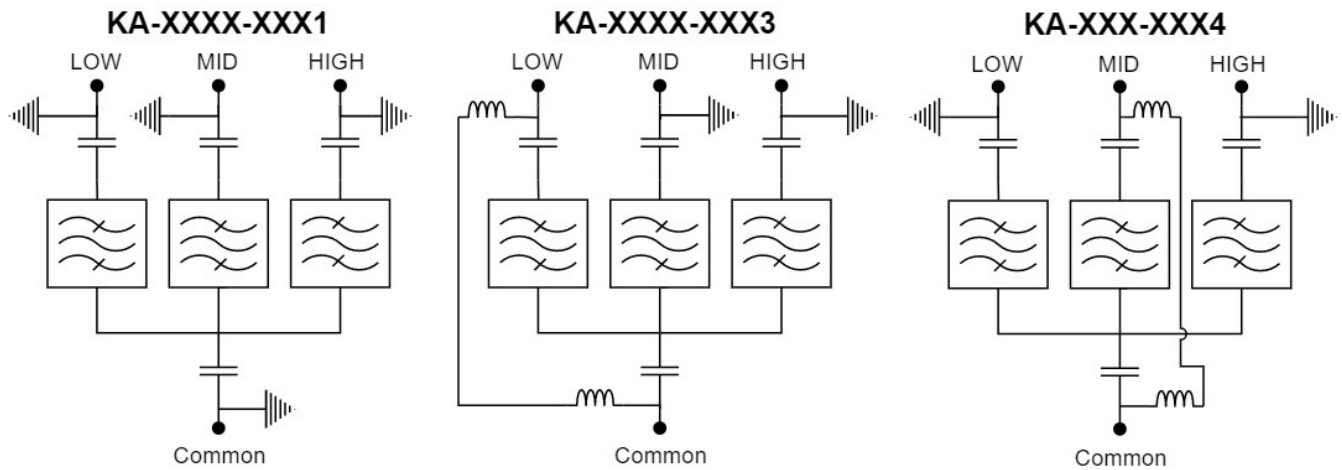
Passband	0 – 3MHz
Insertion loss	1dB maximum
Return loss	12dB minimum
Input voltage range	± 30V
DC current rating	3A continuous
Compliance	3GPP TS 37.461

MECHANICAL	
Dimensions H x D x W (twin unit)	140 x 223 x 78mm 5.5 x 8.8 x 3.1in
Weight	3.6kg 8.0lbs (Twin)
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-3005-2031	6 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	NO DC
KA-3005-2033	6 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC PCS TO COMMON
KA-3005-2034	6 in / 2 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC AWS TO COMMON
KA-3005-4031	12 in / 4 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	NO DC
KA-3005-4033	12 in / 4 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC PCS TO COMMON
KA-3005-4034	12 in / 4 out	FIXED DC FACTORY CONFIGURABLE	4.3-10 (F)	DC AWS TO COMMON

ELECTRICAL BLOCK DIAGRAM



KA-3005-XXXZ where
Z denotes the DC path variant
LOW port is PCS band
MID port is AWS band
HIGH port is 3450-4200 band

MECHANICAL BLOCK DIAGRAM

