

KA-3000 | MI-3000

TRIPLEXER AWS/PCS/2.6 GHZ

The Kaelus KA-3000 is a bi-directional Triplexer, designed to combine or split AWS, PCS and 2.6 GHz bands. The KA-3000 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 2.6 GHz systems
- Compact & lightweight - perfect for Small Cell applications
- Low insertion loss & high return loss
- Low passive IM performance
- Single twin and dual twin models available
- NEX10 (F) connectors standard
- Hard Wired and DC Autosense versions available
- Provisions for wall or mast mounting



TECHNICAL SPECIFICATIONS

BAND NAME	AWS- B66	PCS - B25	2600 - N41
Passband	1695 - 1780 & 2110 - 2200 MHz	1850 - 1995 MHz	2496 - 2690 MHz
Insertion loss	<0.3dB typical, 0.4dB max	<0.3dB typical, 0.4dB max	<0.3dB typical, 0.35dB max
Return loss	>20dB		
Maximum input power	10W (average) / 60W (PEP)	10W (average) / 60W (PEP)	40W (average) / 250W (PEP)
Intermodulation products	<-157 dBc typ at 2 x +40dBm TX Carrier (IM7)	<-157 dBc typ at 2 x +40dBm TX Carrier (IM3)	<-143 dBc typ at 2 x +43dBm TX Carrier (IM3)
Rejection	40dB minimum 1850 - 1995 MHz 2496 - 2690 MHz	40dB minimum 1695 - 1780 MHz 2110 - 2690 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 +85°C -40°F to 185°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

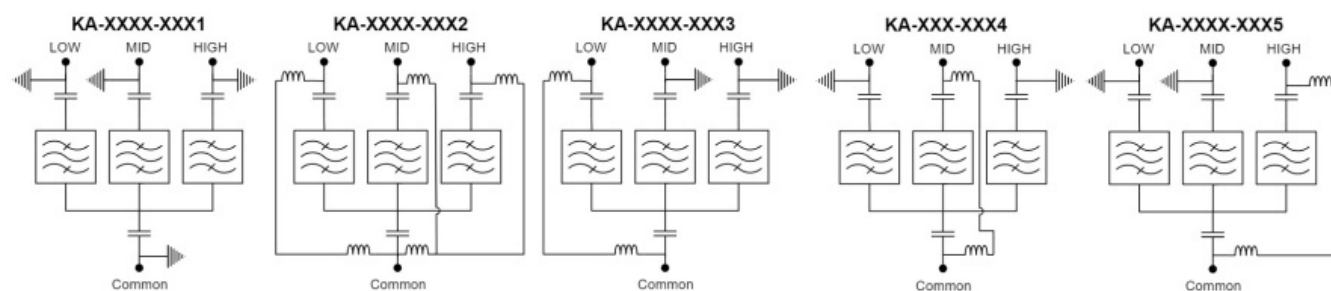
MECHANICAL	
Dimensions H x D x W (twin unit)	232 x 130 x 35mm 9.1 x 5.1 x 1.4in
Dimensions H x D x W (quad unit)	232 x 130 x 64mm 9.1 x 5.1 x 2.5in
Weight	1.7kg 3.8lbs (Twin) 3.2kg 7.0lbs (Quad)
Finish	Painted, NCS 1502-R
Connectors	NEX10 (F)
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
KA-3000-1043	6 in / 2 out	FIXED DC FACTORY CONFIGURABLE	NEX10 (F)	DC ON AWS - B66
KA-3000-2043	12 in / 4 out	FIXED DC FACTORY CONFIGURABLE	NEX10 (F)	DC ON AWS - B66
MI-3000-1043	6 in / 2 out	FIXED DC FACTORY CONFIGURABLE	NEX10 (F)	DC ON AWS - B66
MI-3000-2043	12 in / 4 out	FIXED DC FACTORY CONFIGURABLE	NEX10 (F)	DC ON AWS - B66

Note: DC autosense versions available, contact Kaelus for information

ELECTRICAL BLOCK DIAGRAM



KA-3000-XXXZ where
Z denotes the DC path variant
LOW port is AWS band
MID port is 1900 band
HIGH port is 2600 band

MECHANICAL BLOCK DIAGRAM

