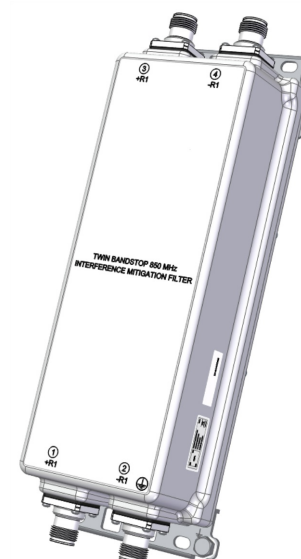


KA-6029

TWIN BANDSTOP 700/900 INTERFERENCE MITIGATION FILTER

The KA-6029 is ideal for co-located 700, 850 and 900 networks. Utilising a 1.5MHz guardband the KA-6029 provides rejection of the 850 band while passing 700 & 900 UL and DL bands. Capable of being used in an outdoor environment the KA-6029 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay, EVM and rejection.



FEATURES

- Rejection of 850MHz downlink
- Passes full 700 & 900 band
- Notch filter structure
- DC/AISG pass
- Low insertion loss
- Outdoor and indoor configurations
- Twin or quad unit

TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH	900 UPLINK PATH	900 DOWNLINK PATH
Passband	703 - 803MHz	890 - 915MHz	935 - 960MHz
Insertion loss	0.2dB typical, 0.25dB maximum	0.2dB typical, 3.3dB maximum	0.2dB typical, 0.25dB maximum
Return loss	20dB typical, 18dB minimum		
Rejection	50dB typical, 47dB minimum @ 880-888.5MHz 30dB typical, 20dB minimum @ 888.5-889MHz		
ELECTRICAL			
Impedance	50Ohms		
Intermodulation products	-160dBc typical -153dBc maximum with 2x20W		
Maximum input power (Per Port)	200W		
DC / AISG			
Passband	0 – 3MHz		
Insertion loss	0.3dB maximum		
Return loss	15dB minimum		
Input voltage range	± 33V		
DC current rating	2A continuous, 4A peak		
Compliance	3GPP TS 25.461		
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, Outdoor unit		
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must terminated with some lightning protection circuits.		
MTBF	>1,000,000 hours		
Compliance	ETSI EN 300 019 class 4.1E, RoHS		

MECHANICAL	
Dimensions H x D x W (twin unit)	334x130x79 mm 13.1 x 5.11 x 3.11 in (Excluding brackets and connectors)
Dimensions H x D x W (quad unit)	334x130x170 mm 13.1 x 5.11 x 6.69 in (Excluding brackets and connectors)
Weight	4.4 kg 9.7 lbs (twin) 9.0 kg 19.8 lbs (quad)
Finish	Powder coated, light grey (NCS 1502-R)
Connectors	RF: 4.3-10 (F) x 4 (twin) RF: 4.3-10 (F) x 8 (quad)
Mounting	Pole/wall bracket supplied with two metal clamps 45-178 mm diameter poles

SHIPPING INFORMATION	
Carton size	470 x 210 x 155mm (twin)
Gross weight (including packaging)	4.7kg (twin)

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6029-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
KA-6029-4032	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



BTS1



ANT2



BTS2



MECHANICAL BLOCK DIAGRAM

