

KA-6003

TWIN BANDSTOP 850MHZ INTERFERENCE MITIGATION FILTER

The KA-6003 is ideal for co-located 700, 850 and 900 networks. Utilising a 2MHz guardband the KA-6003 provides rejection of the 850 band while passing 700 & 900 UL and DL bands. Capable of being used in an outdoor environment the KA-6003 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 unit



TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH	900 UPLINK PATH	900 DOWNLINK PATH
Passband	703 - 803MHz	891.6 - 915MHz	935 - 960MHz
Insertion loss	0.15dB typical, 0.2dB maximum	0.3dB typical, 2.0dB maximum	0.1dB typical, 0.2dB maximum
Return loss	20dB typical, 18dB minimum		
Rejection	40dB minimum @ 875 - 889.6MHz		

ELECTRICAL

Impedance	50Ohms
Intermodulation products	-153dBc maximum with 2x20W (IM3)
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	0°C to +50°C 32°F to +122°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	334x130x80mm 13.1 x 5.11 x 3.14in (Excluding brackets and connectors)
Weight	4.4kg 9.7lbs estimated
Finish	Powder coated, light grey (NCS 1502-R)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Pole/wall bracket supplied with two metal clamps 45-178mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6003-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM

