KA-6005

TWIN BANDSTOP 850MHZ INTERFERENCE MITIGATION FILTER

The KA-6005 is ideal for co-located 700, 850 and 900 networks. Utilising a 2MHz guardband the KA-6005 provides rejection of the 850 band while passing 700 & 900 UL and DL bands. Capable of being used in an outdoor environment the KA-6005 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	890 - 915MHz	935 - 960MHz
Insertion loss	0.15dB typical, 0.2dB maximum	0.25dB typical, 1.1dB maximum	0.1dB typical, 0.2dB maximum
Return loss	20dB typical, 18dB minimum		
Rejection	60dB minimum @ 869-885MHz		

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	-20ºC to +60ºC | -4°F to +140°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

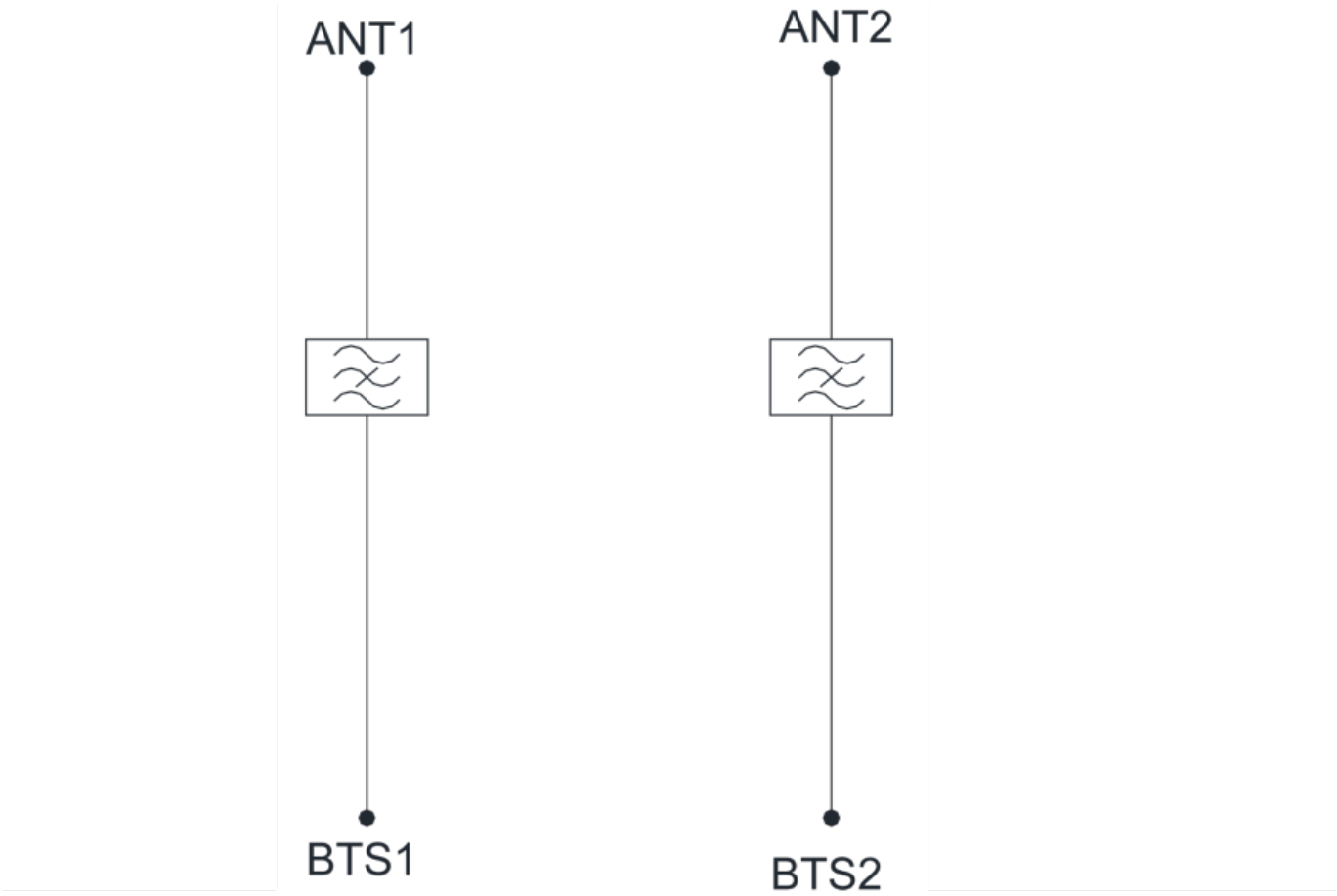
MECHANICAL	
Dimensions H x D x W	334x130x80mm | 13.1 x 5.11 x 3.14in (Excluding brackets and connectors)
Weight	4.4kg | 9.7lbs estimated
Finish	Powder coated, light grey (NCS 1502-R)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Pole/wall bracket supplied with two metal clamps 45-178mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6005-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ELECTRICAL BLOCK DIAGRAM



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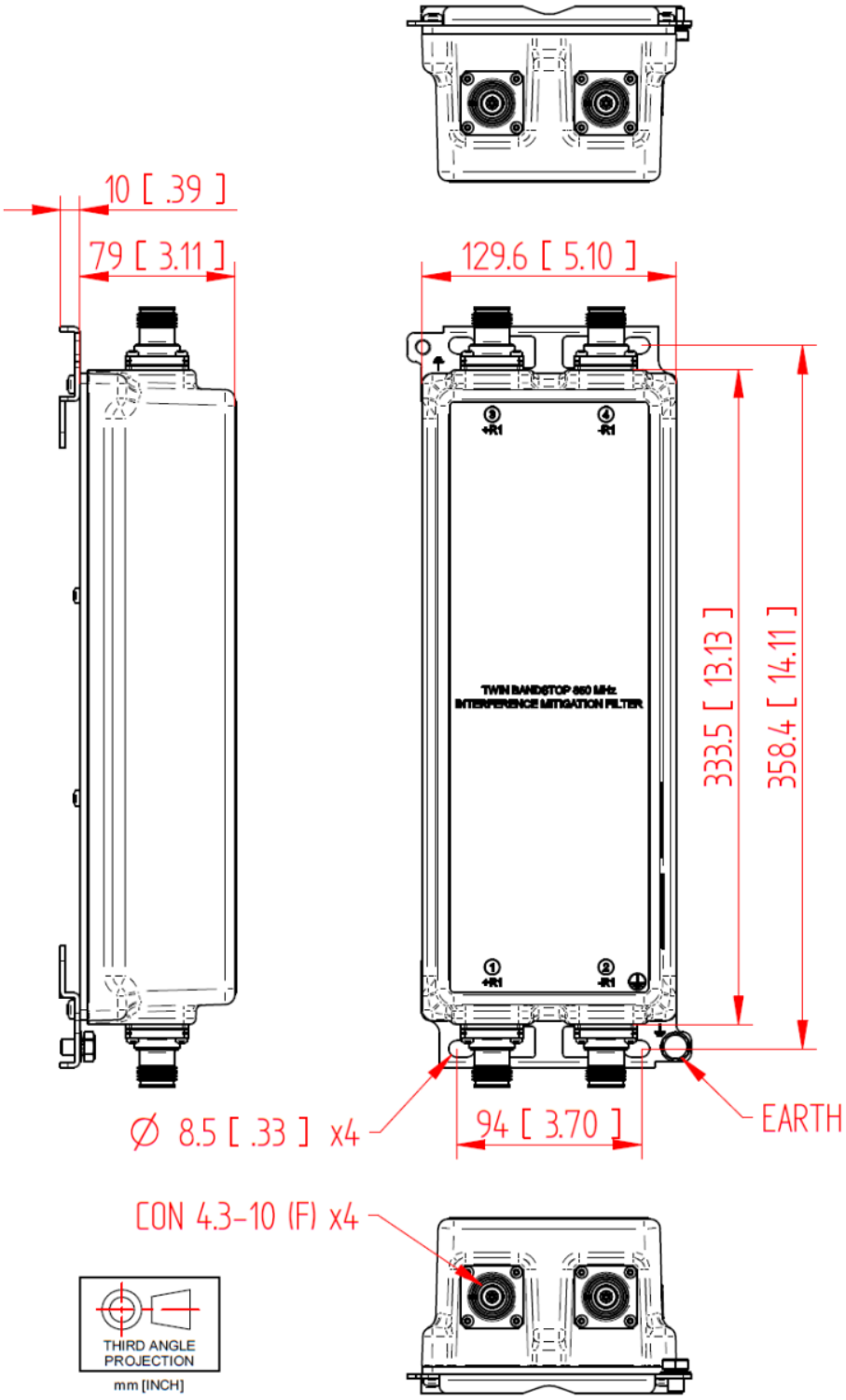

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