

KA-6008-8031

3.7GHZ BAND INTERFERENCE MITIGATION FILTER

The KA-6008-8031 rejects interference in the Satellite Communication Band (3820-3980MHz) band while passing 3700-3760MHz (A1/A2/A3 Block). Capable of being used in an outdoor environment, the KA-6008-8031 contains eight identical filters, suitable for 8x8 MIMO configuration, offering excellent insertion loss and rejection.

FEATURES

- Low insertion loss
- Outdoor and indoor configurations
- 8 in, 8 out configuration suitable for 8x8 MIMO configuration
- Available as a tunable version: KA-6008-8433



TECHNICAL SPECIFICATIONS

	3700 BAND
Passband	3700-3760MHz
Insertion loss	0.45 typ / 0.7dB maximum
Return loss	24dB typical, 21dB minimum
Maximum input power	75W per channel
Intermodulation products	-153dBc (2x20W)
Group Delay Absolute	20ns typ, 30ns max
Group Delay Variation across 60MHz	7ns typ, 15ns max
Group Delay Tracking between channels	17ns +/-10ns at 3760MHz 10ns +/-5ns at 3730MHz 15ns +/-5ns at 3700MHz
Rejection	60dB minimum @ 3820-3980MHz

ELECTRICAL

Impedance	50Ohms
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DC / AISG

Compliance	AISG2.0, 3GPP TS 25.461
DC current rating	NO DC DC ground

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
MTBF	>500,000 hours
Compliance	ETSI EN 300 019 class 4.1E, RoHS

MECHANICAL

Dimensions H x D x W	201 x 108 x 296mm 7.91 x 4.25 x 11.65in (Excluding brackets and connectors)
Weight	10kg 22lbs estimated
Finish	Powder coated, light grey (NCS 1502-R)
Connectors	RF: 4.3-10 (F)
Mounting	Pole/wall bracket supplied with two metal clamps 45-178mm diameter poles

ORDERING INFORMATION

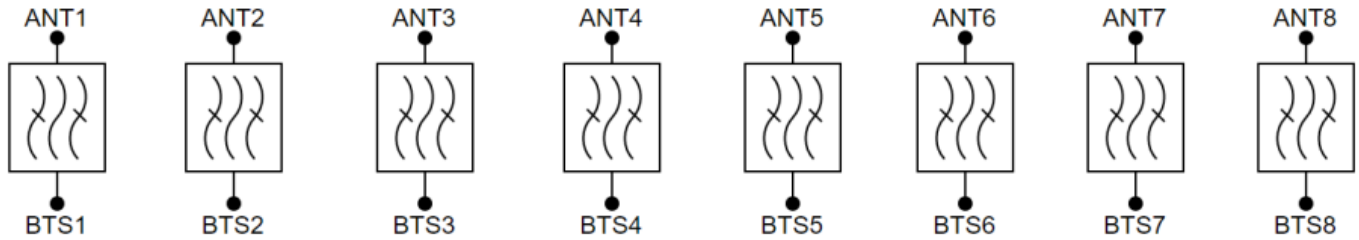
PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6008-8031	8 way, 8 in / 8 out	Filter Position 1 only	4.3-10 (F)
KA-6008-8433	8 way, 8 in / 8 out	Tunable filter AISG IN on port BTS1	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

KA-6008-WXYZ where

- **W** denotes the configuration: W=8, 8 way - 8:8
- **X** denotes the optional feature: X=0, basic - fixed tuned to position 1, X=4, tunable
- **Y** denotes the connector type: Y=3, 4.3-10 (F)
- **Z** denotes the DC configuration: Z=1, No DC, Z=3, DC on first port (BTS1)

KA-6008-8031 is shown



MECHANICAL BLOCK DIAGRAM

