

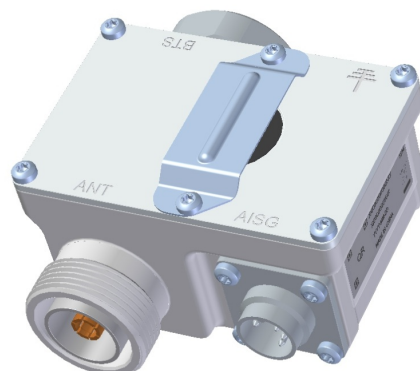
KA-9003

SMART BIAS TEE

The Kaelus KA-9003 provides a flexible Smart Bias Tee solution allowing for AISG and DC to be placed onto a feeder at the bottom of the tower or extracted from the feeder at the top. Operating across all the cellular frequency bands the KA-9003 provides the following additional benefits

FEATURES

- Primary surge protection limits the voltage let-through from the feeder to the DC port
- Available in top of the tower or bottom of the tower applications
- Variable connector configurations to allow for different installation techniques and scenarios
- IP67 for continuous outdoor operation



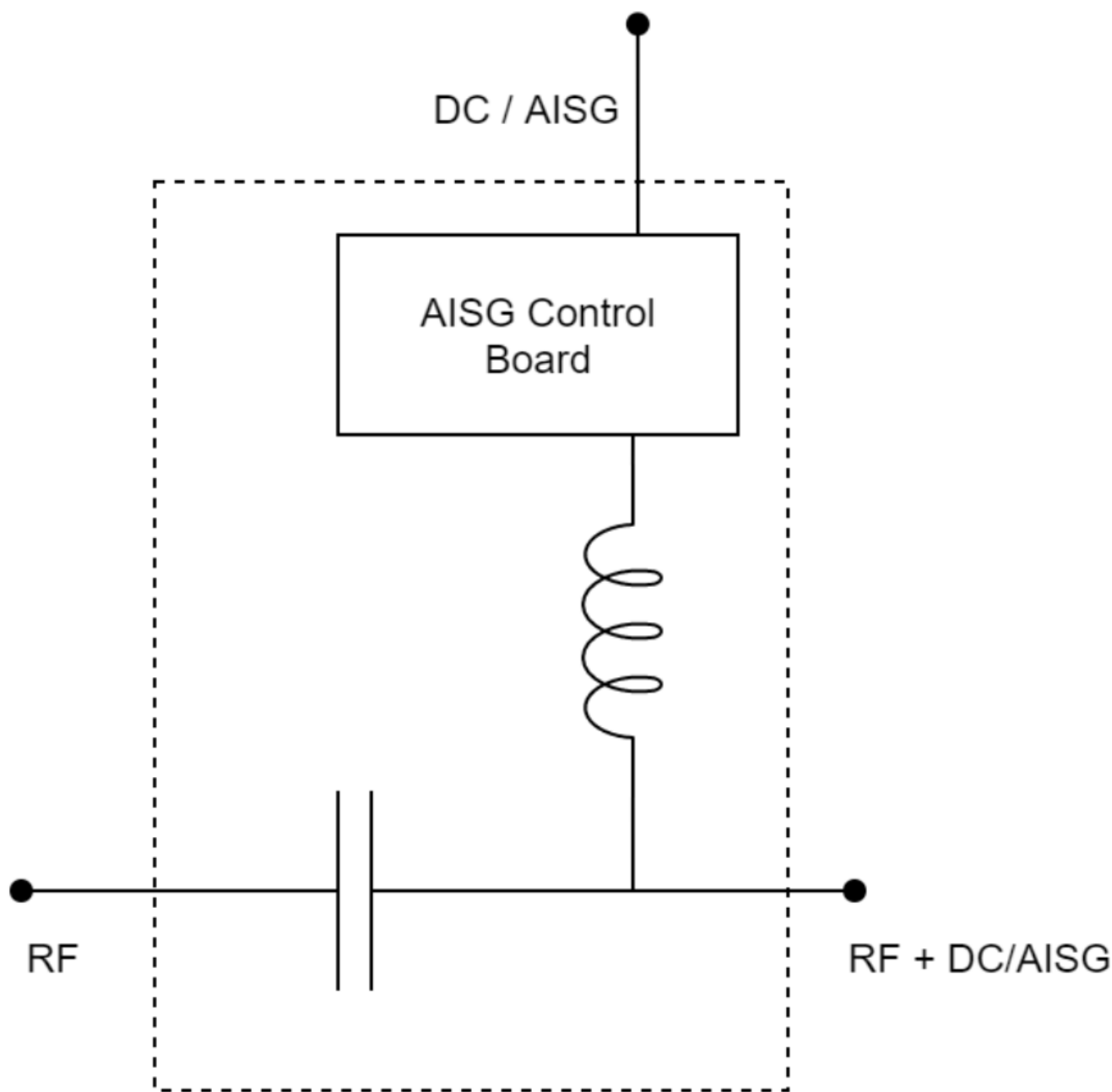
TECHNICAL SPECIFICATIONS

RF	
Passband	698 - 2690MHz
Return loss	20dB minimum input and output
Insertion loss	0.1dB maximum
Maximum input power with no damage	750W (average) maximum
RF impedance	50ohms
Isolation RF - DC	65 dB
Intermodulation, passive	<-159dBc with 2 x 20W carriers
DC	
DC Current	2.7 A
Voltage Drop	1 V
ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-40°C to +65°C -40°F to 149°F
Ingress protection	IP66, Outdoor unit
Lightning protection	IEC-61000-4-5 8/20µs, ±5kA
MECHANICAL	
Dimensions H x D x W	41 x 76 x 51 mm maximum
Weight	0.75 kg
Finish	Painted, light grey (NCS 1502-R)

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
KA-9003-1000	SINGLE, 1 in / 1 out	Bottom of tower version: Inject AISG on RF	BTS 7/16(M) ANT 7/16(F) AISG (M)	Compliant with AISG type signalling 2.176 MHz
KA-9003-1001	SINGLE, 1 in / 1 out	Top of tower version: Extract AISG from RF	BTS 7/16(F) ANT 7/16(M) AISG (F)	Compliant with AISG type signalling 2.176 MHz
KA-9003-1002	SINGLE, 1 in / 1 out	Bottom of tower version: Inject AISG on RF	BTS 7/16(F) ANT 7/16(M) AISG (M)	Compliant with AISG type signalling 2.176 MHz
KA-9003-1003	SINGLE, 1 in / 1 out	Top of tower version: Extract AISG from RF	BTS 7/16(M) ANT 7/16(F) AISG (F)	Compliant with AISG type signalling 2.176 MHz

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

