TBC0020F1V52-1

Triple Band Combiner, 700 Low (698-746) and 850 and PCS/AWS, w/ Sniffer port, Single Unit

Designed to combine 700, 850 and PCS/AWS technologies the Kaelus TBC0020 provides a low loss Combiner with excellent insertion loss and Passive intermodU/Lation performance. Designed to combine 700, 850 and PCS/AWS technologies the Kaelus TBC0020 provides a low loss Combiner with excellent insertion loss and Passive intermodU/Lation performance.

PRODUCT FEATURES

- Combines 700, 850 and high Band 1710-2170 BTS onto a single feeder
- Designed for low Passive inter-modU/Lation
- DC/AISG bypass field settable with optional sniffer port
- Very low insertion losses

TECHNICAL SPECIFICATIONS

BAND 1

Passband MHz	698-746
Insertion Loss dB (max)	0.15
Return Loss dB (min)	20
Isolation to Band 2 dB (min)	60
Isolation to Band 3 dB (min)	60
Phase linearity variation ° max over BW	<10 / 10 MHz
Group delay variation ns max over BW	< 5 / 10 MHz
Maximum average input power Watts	500
Maximum PEP input power Watts	5000

BAND 2

Passband MHz	824-894
Insertion Loss dB (max)	0.15
Return Loss dB (min)	20
Isolation to Band 1 dB (min)	60
Isolation to Band 3 dB (min)	60
Phase linearity variation ° max over BW	<10 / 10 MHz
Group delay variation ns max over BW	< 5 / 10 MHz
Maximum average input power Watts	500
Maximum PEP input power Watts	5000

BAND 3

Passband MHz	1710-2170
Insertion Loss dB (max)	0.15
Return Loss dB (min)	20
Isolation to Band 1 dB (min)	60
Isolation to Band 2 dB (min)	60
Phase linearity variation ° max over BW	<10 / 10 MHz
Group delay variation ns max over BW	< 5 / 10 MHz
Maximum average input power Watts	500
Maximum PEP input power Watts	5000

GENERAL SPECIFICATIONS

Monitor Port Coupling dB nom relative to COM	-40
Intermod Products dBc All Ports	-155

DC / AISG

Port 1 DC to COM Plug Color	Red
Port 2 DC to COM Plug Color	Blue
Port 3 DC to COM Plug Color	Yellow
Maximun input voltage VDC	31

DC Current rating A Continuous, A peak	2 / 4
AISG passband MHz	0-3
AISG Insertion loss dB (max) single DC/AISG pass	1
AISG return loss dB (min) single DC/AISG pass	12
AISG Insertion loss dB (typical) two DC/AISG pass	4.5
AISG return loss dB (typical) two DC/AISG pass	9
Compatibity AISG	1.1 / 2.0

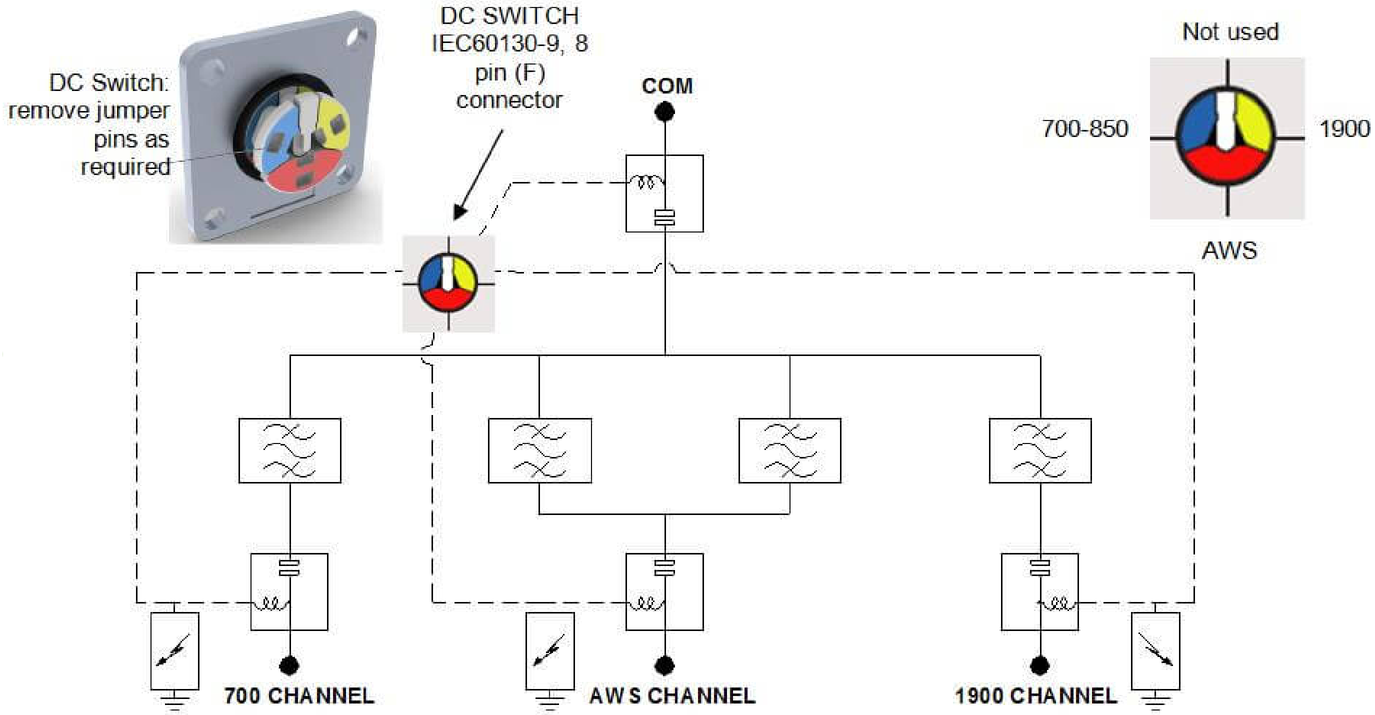
ENVIRONMENTAL

Environmental rating	ETSI EN 300 019 class 4.1, RoHS
Ingress protection	IP67
Temperature range °C	-40 to +65
Temperature range °F	-40 to +149
Lightning protection all ports	±5kA max (8/20us)
MTBF (hours)	>1000000

MECHANICAL

Connectors RF	DIN 7-16 (F) long neck
Connectors Quantity	4
Connector Quantity	1
Dimensions excluding brackets & connectors H x D x W mm (in.)	236 x 81 x 168 / 9.3 x 3.2 x 6.6
Weight, KG, (lbs)	5.9 / 13
Mounting	Pole/wall bracket supplied w/ two metal clamps for 45-178 mm diameter poles

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

V1 (No Monitor Port) Shown