

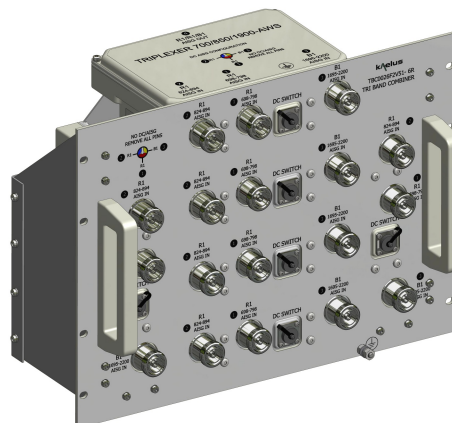
TBC0026F2V51-6R

TRIPLEXER 700/850/1900-AWS

Designed to combine 700, 850 and 1900/AWS technologies the Kaelus TBC0026 provides a low loss combiner with excellent insertion loss and passive inter-modulation performance. The TBC0026 is AWS 3 / AWS 3U and AWS 4 ready.

FEATURES

- AWS 3 / AWS 3U and AWS4 ready, combines 700, 850 and high band BTS onto a single feeder
- Designed for low passive inter-modulation
- DC/AISG bypass field settable
- Very low insertion loss



TECHNICAL SPECIFICATIONS

BAND NAME	700	850	1900/AWS
Passband	698-798MHz	824-894MHz	1695-2200MHz
Insertion loss	0.25dB maximum @ 698-793MHz / 0.35dB maximum @ 793-798MHz	0.25dB maximum	0.2dB maximum

ELECTRICAL

Impedance	50Ohms
Return loss	21dB minimum, 24dB typical
Intermodulation products	-161dBc typical / -153dBc maximum all ports with 2 x 20W carriers
Maximum input power	300W (average) / 3kW (PEP)
Isolation from port to port	50dB minimum, 698-793MHz & 824-894MHz & 1695-2200MHz
Isolation from port to port	35dB minimum, 793-798MHz
Phase linearity variation over any 10MHz	10° maximum
Group delay variation over any 10MHz	15ns maximum

DC / AISG

A field selectable DC/AISG path is achieved via mechanical links on a IEC60130-9, 8-pin female connector (see electrical block diagram). It is Kaelus's recommendation that due to AISG link budget reasons that a maximum of 2 DC/AISG paths are activated simultaneously without active repeating of the AISG signal

Passband	0 – 3MHz
Insertion loss, single DC/AISG pass	1dB maximum
Return loss, single DC/AISG pass	12dB minimum
Insertion loss, two DC/AISG pass	4.5dB typical
Return loss, two DC/AISG pass	9dB typical
Input voltage range	± 31V
DC current rating	2A continuous, 4A peak
Compliance	AISG 1.1/2.0

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
Lightning protection	IEC61000-4-5, RF: ±5kA maximum (8/20us)
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1, RoHS

MECHANICAL	
Dimensions H x D x W	481x 355 x 200mm 18.9 x 14 x 7.9in
Weight	37kg 81.6lbs
Finish	Painted, light grey (RAL7035)
Connectors	DIN 7-16 (F) x 24 long neck
Mounting	Rack mounting 19", 23" optional

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
TBC0026F2V51-1	SINGLE 1 in / 3 out	DC SWITCH	7/16 (F)	FIELD CONFIGURABLE
TBC0026F2V51-2	TWIN 2 in / 6 out	DC SWITCH	7/16 (F)	FIELD CONFIGURABLE
TBC0026F2V51-6R	RACK 6 in / 18 out	DC SWITCH	7/16 (F)	FIELD CONFIGURABLE

ELECTRICAL BLOCK DIAGRAM

NOTE: SINGLE UNIT SHOWN

DC SWITCH
IEC60130-9, 8 PIN (F)
CONNECTOR

④
R1/R1/B1
AISG OUT

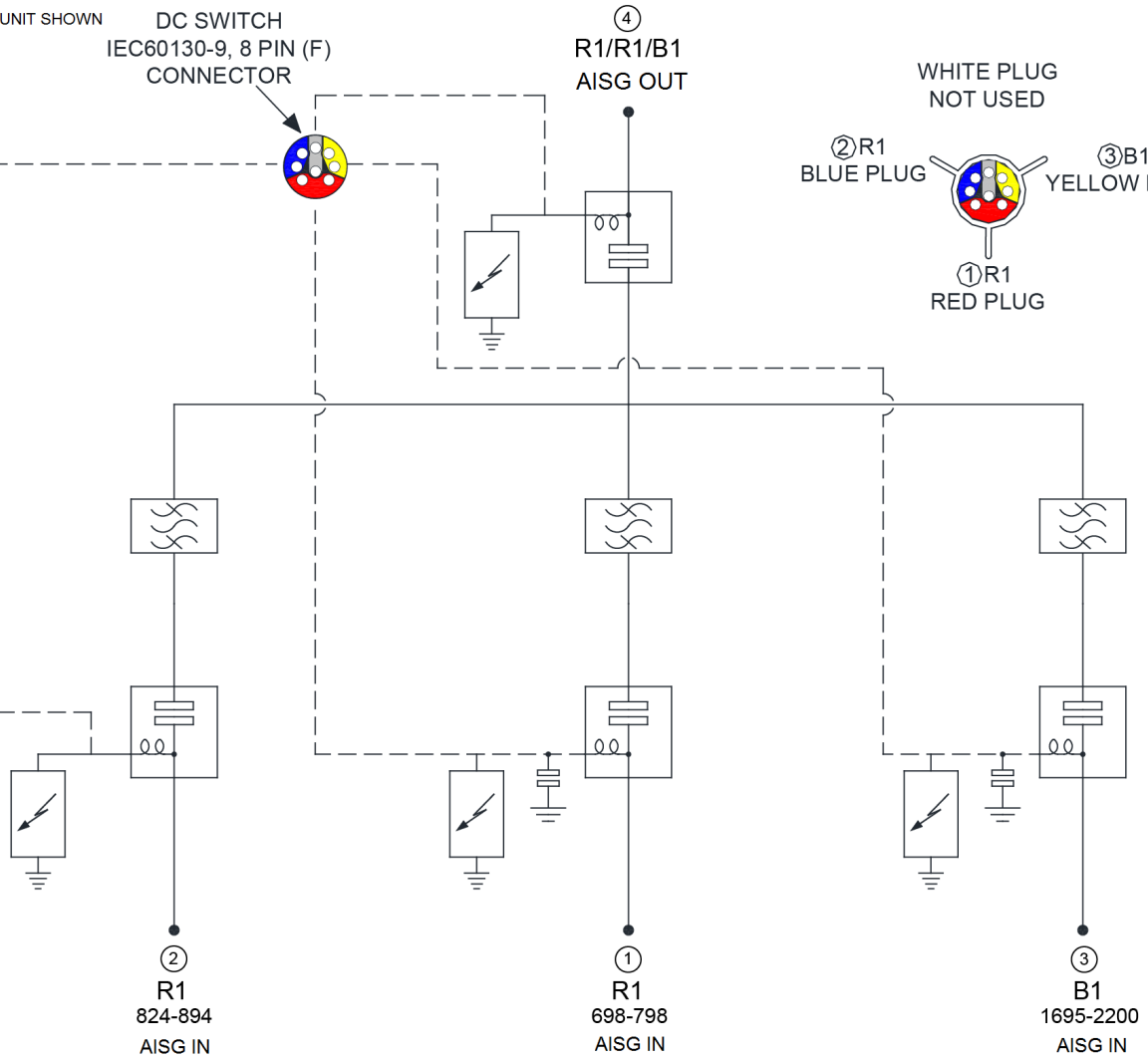
WHITE PLUG
NOT USED

②R1
BLUE PLUG

③B1
YELLOW PLUG

①R1
RED PLUG

DC/SIGNALING PATH



MECHANICAL BLOCK DIAGRAM

