

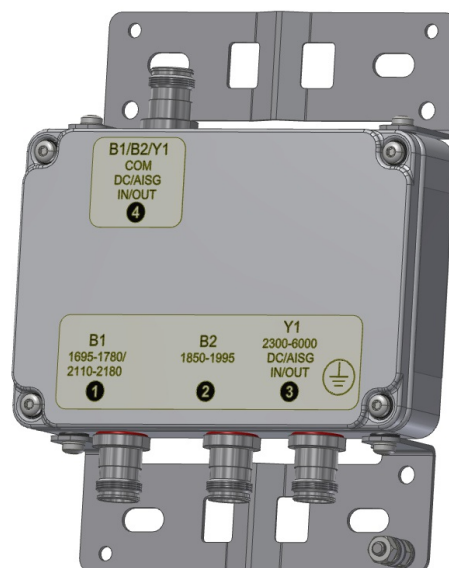
TBC0045F1V1-1

TRIPLEXER 1900/AWS/2300-6000

The Kaelus TBC0045 is a bi-directional Triplexer, designed to combine or split 1900, AWS and 2300-6000MHz bands. The TBC0045 provides low insertion loss and high return loss with excellent passive inter-modulation performance in an extremely small and lightweight IP67 capable package

FEATURES

- Enables antenna & coax sharing for 1900, AWS & 2300-6000 systems
- AWS-3 ready
- Offers low insertion loss
- Low passive IM performance
- Wall or mast mounting
- Single and twin models available
- 4.3-10 (F) long neck connectors standard
- DC Pass on 2300-6000 Path



TECHNICAL SPECIFICATIONS

BAND NAME	1900	AWS	2300-6000
Passband	1850 - 1995MHz	1695 - 1780MHz / 2110 - 2180MHz	2300 - 6000MHz
Insertion loss	0.4dB typical		
Return loss	24dB typical	24dB typical	20dB typical
Maximum input power	80W (average) / 800W (PEP)	80W (average) / 800W (PEP)	60W (average) / 600W (PEP)
Isolation	40dB typical		

ELECTRICAL

Impedance	50Ohms
Intermodulation products	-161dBc typical (-155dBc max.) all ports with 2 x 20W carriers

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	IEC61312-1, RF: ±5kA maximum (8/20us) survival without damage (no suppression)
MTBF	>1,000,000 hours

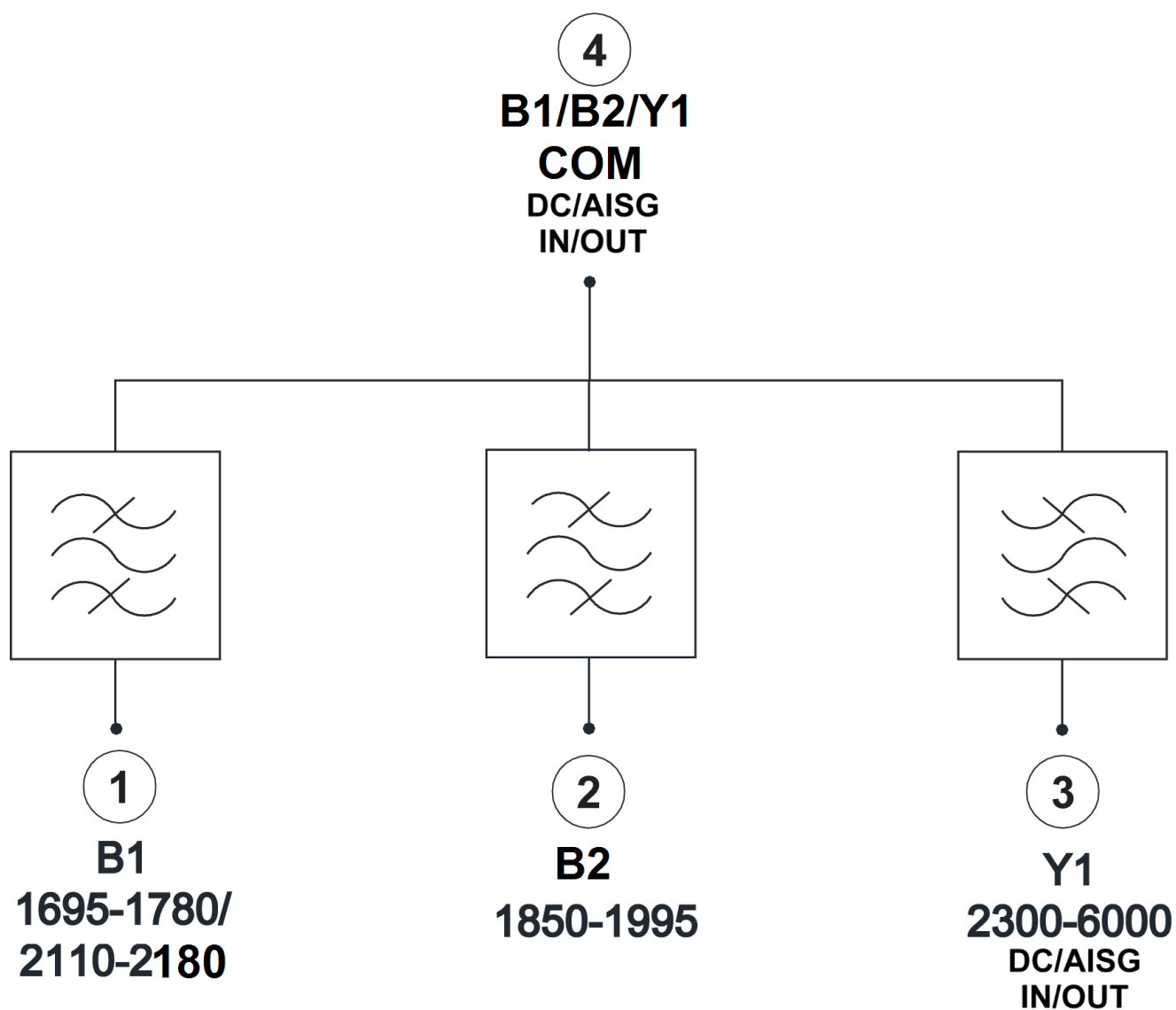
MECHANICAL

Dimensions H x D x W (single unit)	190 x 130 x 41mm 7.5 x 5.1 x 1.6inch (excluding connector and bracket)
Dimensions H x D x W (twin unit)	190 x 130 x 92mm 7.5 x 5.1 x 3.6inch (excluding connector and bracket)
Weight	2.4kg 5.30lbs (single) 4.7kg 10.35lbs (twin)
Finish	Painted, light grey (RAL7035)
Connectors	4.3-10 (F) x 4 long neck (single) 4.3-10 (F) x 8 long neck (twin)
Wind Load	Front 162N, Side 29N (single) Front 185N, Side 89N (twin) At 74m/s (AS/NZS 1170-2-2011 Structural design - Wind actions - Cyclone areas)
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
TBC0045F1V1-1	SINGLE 1 in / 3 out	FIXED DC	4.3-10 (F)	DC ON 2300-2600
TBC0045F1V1-2	TWIN 2 in / 6 out	FIXED DC	4.3-10 (F)	DC ON 2300-2600

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

