

TBC0082F1V10-2

TRIPLEXER 555-960MHZ/1900/AWS-WCS

The Kaelus TBC0082 is a bi-directional Triplexer, designed to combine or split 555-960MHz, 1900 and AWS-WCS bands. The TBC0082 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 555-960MHz, 1900 & AWS-WCS systems
- Compact & lightweight - perfect for Small Cell applications
- Low insertion loss & high return loss
- Low passive IM performance
- Single twin and dual twin models available
- 4.3-10 (F) long neck connectors standard
- Hard Wired and DC Autosense versions available
- Provisions for wall or mast mounting
- AWS3 and 4 ready



TECHNICAL SPECIFICATIONS

BAND NAME	555-960	1900	AWS-WCS
Passband	555 - 960MHz	1850 - 1995MHz	1695 - 1780MHz / 2110 - 2360MHz
Insertion loss	0.2dB typical	0.25dB typical	0.25dB typical
Return loss	24dB typical	24dB typical	24dB typical
Maximum input power	100W (average) / 1000W (PEP)	100W (average) / 1000W (PEP)	100W (average) / 1000W (PEP)
Isolation	40dB typical (35dB minimum)		

ELECTRICAL

Impedance	50Ohms
Intermodulation products	-161dBc maximum all ports with 2 x 43dBm 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

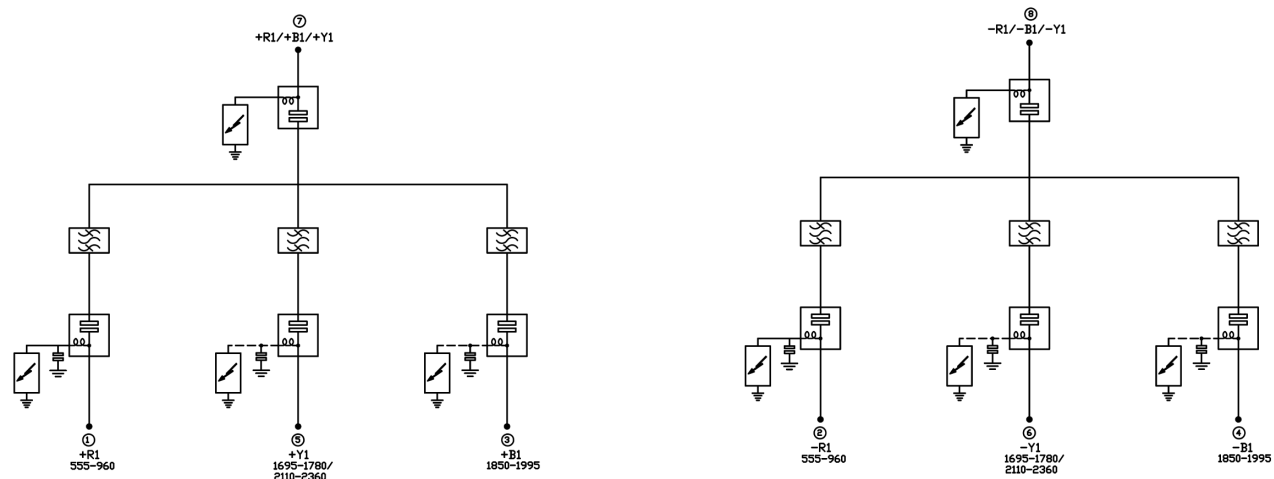
MECHANICAL

Dimensions H x D x W (single twin unit)	145 x 113 x 205 mm 5.7 x 4.4 x 8 in (Twin unit)
Dimensions H x D x W (dual twin unit)	145 x 230 x 205 mm 5.7 x 9 x 8 in (Quad unit)
Weight	4.8kg 10.6lbs (twin) 9.6kg 21.15lbs (quad)
Finish	Painted, light grey (RAL7035)
Connectors	4.3-10 (F) x 8 long neck (twin) 4.3-10 (F) x 16 long neck (quad)
Wind Load	Front 225N, Side 74N (estimated, twin) Front 205N, Side 161N (estimated, quad) 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
TBC0082F1V10-1	TWIN 2 in / 6 out	FIXED DC	4.3-10 (F)	NO DC
TBC0082F1V10-2	QUAD 4 in / 12 out	FIXED DC	4.3-10 (F)	NO DC

ELECTRICAL BLOCK DIAGRAM



SINGLE TWIN SCHEMATIC

MECHANICAL BLOCK DIAGRAM

