

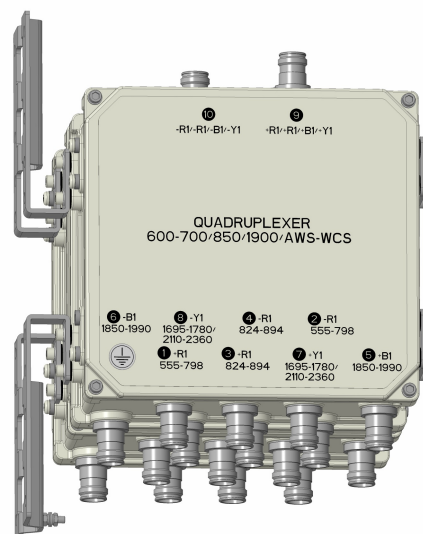
QBC0010F1V10-2

QUADRUPLER 600-700/850/1900/AWS-WCS

The Kaelus QBC0010 is a bi-directional Quadruplexer designed to combine 600 & 700 with 850, 1900 and AWS-WCS technologies, the QBC0010 provides excellent insertion loss and passive intermodulation performance. Bidirectional passage of DC/AISG is provided in this outdoor product.

FEATURES

- Enables antenna/feeder sharing for 600-700, 850, 1900 and AWS-WCS networks
- Compact & lightweight - perfect for Small Cell applications
- Low insertion loss & high return loss
- Low passive IM performance
- Twin (-1) and Quad (-2) 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

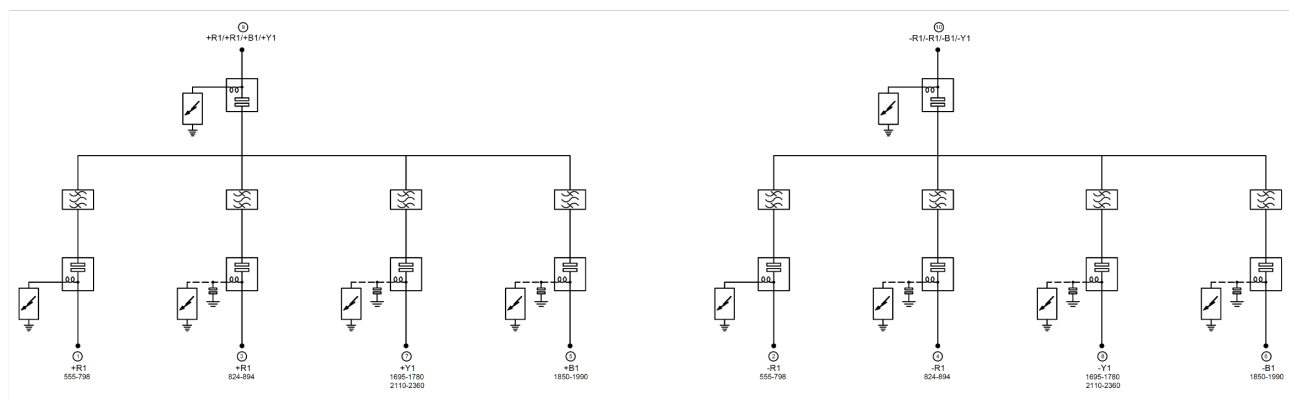
BAND NAME	600-700	850	1900	AWS-WCS
RF PERFORMANCE				
Passband	555 - 798MHz	824 - 894MHz	1850 - 1990MHz	1695 - 1780MHz / 2110 - 2360MHz
Insertion loss	0.15dB typical	0.20dB typical	0.25dB typical	0.30dB typical
Return loss	23dB typical, 22dB maximum @ 25dgrC 20dB maximum over full temperature range			
Maximum input power	120W (average) / 1.2kW (PEP)			
Rejection in 700	N/A	50dB typical	65dB typical	65dB typical
Rejection in 850	50dB typical	N/A	65dB typical	65dB typical
Rejection in 1900	65dB typical	65dB typical	N/A	50dB typical
Rejection in AWS	65dB typical	65dB typical	50dB typical	N/A
ELECTRICAL				
Impedance	50Ohms			
Intermodulation products	-161dBc typ, -156dBc maximum with 2 x 43dBm carriers			
Group delay over any 10MHz	15ns typical	15ns typical	7.5ns typical	7.5ns typical
Absolute group delay	35ns typical	35ns typical	15ns typical	1695 -1780MHz 20ns typical 2110 - 2360MHz 15ns typical
EVM 10MHz BW	0.05% typical. 2% maximum			
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			
Altitude	3000m/10,000ft maximum			
Lightning protection	IEC61312-1, RF: ±5kA maximum (8/20us)			
MTBF	>1,000,000 hours			

MECHANICAL	
Dimensions H x D x W (single twin unit)	214 x 228 x 146 mm 8.4 x 9 x 5.7 in
Dimensions H x D x W (dual twin unit)	214 x 228 x 296 mm 8.4 x 9 x 11.6 in
Weight	8.7kg / 19.1bs (twin) 17.4kg / 38.4lbs (quad)
Finish	Painted, light grey (RAL7035)
Connectors	4.3-10 (F) x 10 long neck (twin) 4.3-10 (F) x 20 long neck (quad)
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
QBC0010F1V10-1	TWIN, 2 in / 8 out	FIXED DC	7/16 (F)	NO DC
QBC0010F1V10-2	QUAD, 4 in / 16 out	FIXED DC	7/16 (F)	NO DC

ELECTRICAL BLOCK DIAGRAM



SINGLE TWIN SCHEMATIC

MECHANICAL BLOCK DIAGRAM

