

DBC0108F1V10-1

DIPLEXER 600-700/850 NO DC/AISG PASS, SINGLE

The Kaelus DBC0108 is a bi-directional Diplexer designed to combine 600 & 700 with 850 technologies, the DBC0108 provides excellent insertion loss and passive intermodulation performance.

FEATURES

- Enables antenna/feeder sharing for 600-700 and 850 networks
- Designed and 100% tested for low passive intermodulation
- Very low insertion loss
- High return loss
- Small size, lightweight



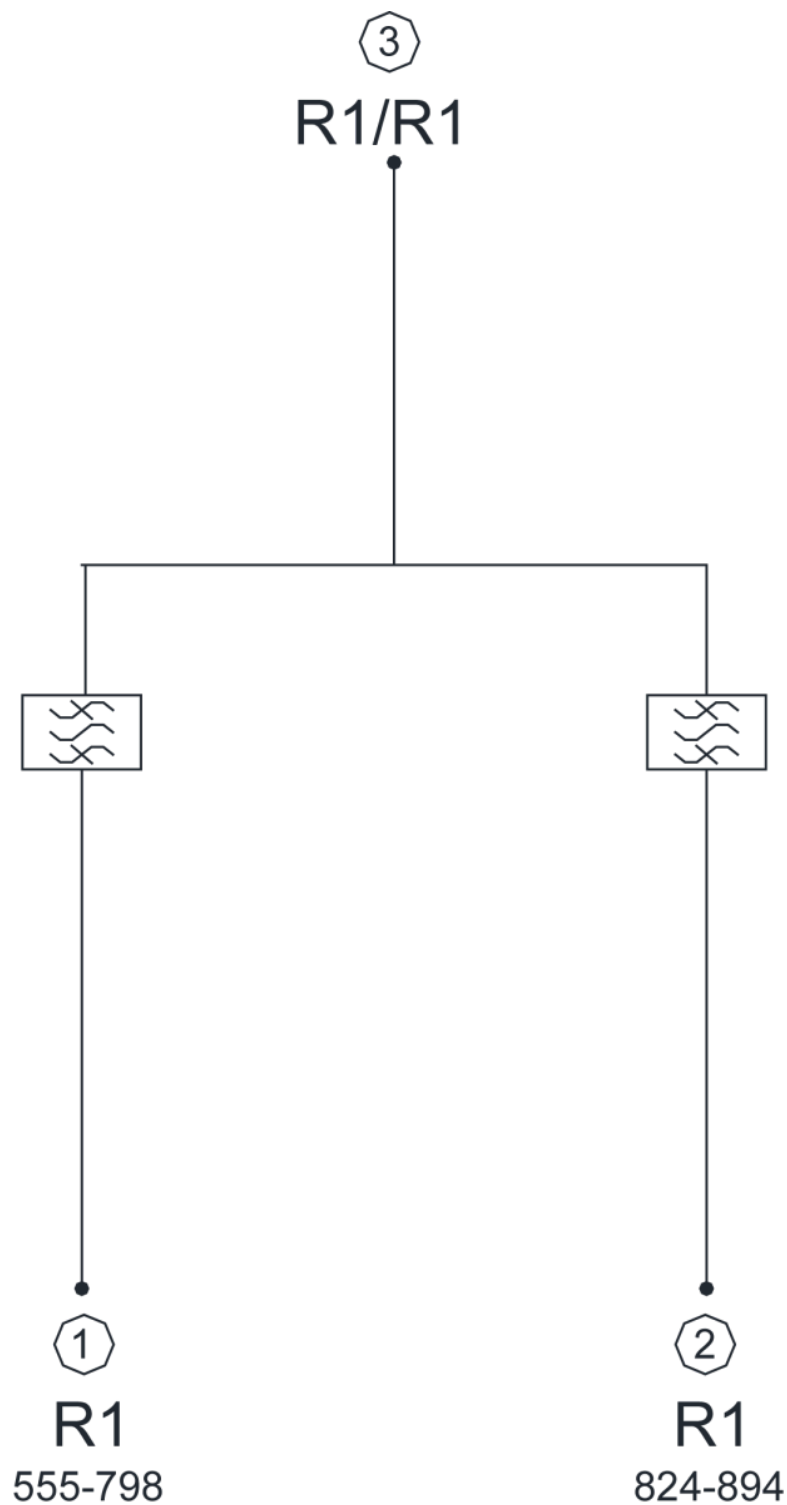
TECHNICAL SPECIFICATIONS

PORT NAME	600-700	850
Passband	555 - 798MHz	824 - 894MHz
Insertion loss	0.15dB typical	
Return loss	23dB typical	
EVM	≤0.5% across any 10MHz	≤0.5% across any 20MHz
Group delay variation	7.5ns typical over any 10MHz	10ns typical over any 20MHz
Absolute group delay	7.5ns typical	17.5ns typical
Maximum input power	120W (average) / 1200W (PEP)	120W (average) / 1200W (PEP)
Phase linearity over any 10MHz	2° typical, 10 °maximum	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc typical all ports with 2 x 20W carriers	
Isolation	50dB typical	
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	RF: ±5kA maximum (8/20us), IEC61312-1	
MTBF	>1,000,000 hours	
Compliance	FCC part 15 subpart B	
MECHANICAL		
Dimensions H x D x W (single unit)	172 x 145 x 80 mm 6.8 x 5.7 x 3.15 in	
Weight	2.9kg / 6.4lbs	
Finish	Painted, light grey (RAL7035)	
Connectors	4.3-10 (F) x 3 long neck	
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles	
Dimensions H x D x W	172 x 145 x 80 mm 6.8 x 5.7 x 3.15 in	
Weight	2.9kg / 6.4lbs	
Finish	Painted, light grey (RAL7035)	
Wind Load	Front 188N, Side 62N (single) At 74m/s (AS/NZS 1170-2-2011 Structural design - Wind actions - Cyclone areas)	
Connectors	4.3-10 (F) x 3 long neck	
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles	

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DBC0108F1V10-1	DIPLEXER 600-700/850 NO DC/AISG PASS
DBCT108F1V10-1	TWIN DIPLEXER, 600-700/850, NO DC/AISG PASS, 4.3-10
DBCT108F1V10-2	TWIN DIPLEXER X2, 600-700/850, NO DC/AISG PASS, 4.3-10
DBCT108F1V11-1	TWIN DIPLEXER, 600-700/850, DC/AISG on 700, 4.3-10
DBCT108F1V11-2	TWIN DIPLEXER X2, 600-700/850, DC/AISG on 700, 4.3-10

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

