

DBC0068F1V1-1

TWIN DIPLEXER 698-803/898.4-951.8

Kaelus world-proven outdoor solutions provide strong RF performance coupled with rugged operation. The DBC0068 provides the following features and benefits:



FEATURES

- Enable feeder sharing using 700 and 900 cellular bands
- Low passive IM performance
- Offers low insertion loss and high isolation
- Multiple DC by-pass/AISG configurations available
- Twin unit wall or pole mounting
- Outdoor/indoor

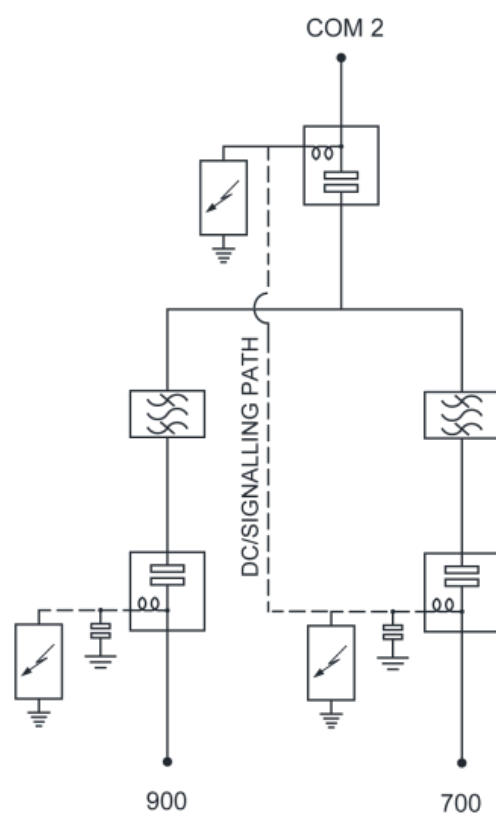
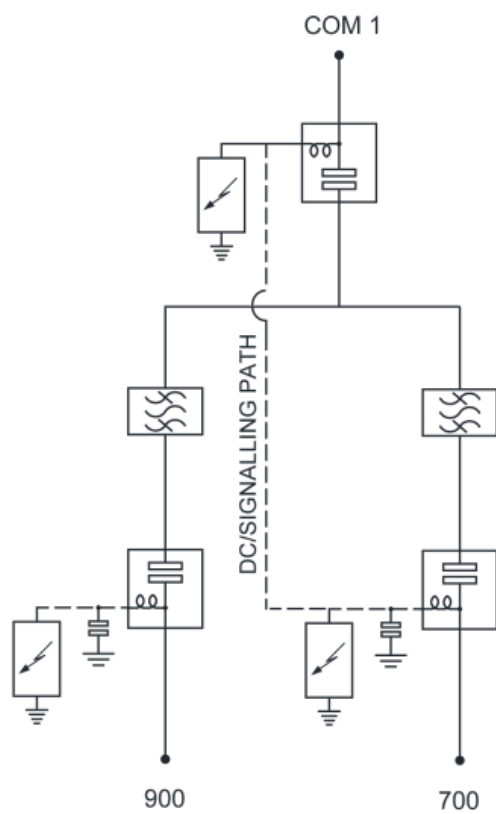
TECHNICAL SPECIFICATIONS

PORT NAME	698-803	898.4-951.8
Passband	698 - 803MHz	898.4 - 951.8MHz
Insertion loss	0.3dB typical	0.5dB typical
Return loss	18dB minimum	
Maximum input power	160W (average) / 1.6kW (PEP)	160W (average) / 1.6kW (PEP)
Attenuation	898.4 - 951.8MHz = 53dB minimum 870 - 890MHz = 40dB minimum	698 - 803MHz = 55dB minimum 870 - 890MHz = 40dB minimum
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-155dBc maximum all ports with 2 x 20W carriers	
DC / AISG		
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 maximum	
Return loss, two DC/AISG pass	12dB typical	
Input voltage range	±30V	
DC current rating	2A continuous, 4A peak	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +65°C -4°F to +149°F	
Ingress protection	IP67, Outdoor unit	
Lightning protection	RF: ±5kA maximum (8/20us)	
MTBF	>1,000,000 hours	
MECHANICAL		
Dimensions H x D x W	300 x 254 x 99.6mm 11.81 x 10 x 3.92in	
Weight	6.7kg 14.8lbs	
Finish	Painted, light grey (RAL7035)	
Connectors	DIN 7-16 (F) x 6 long neck	
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
DBC0068F1V1-1	TWIN 2 in / 4 out	FIXED DC	7/16 (F)	DC TO 700
DBC0068F1V3-1	TWIN 2 in / 4 out	FIXED DC	7/16 (F)	DC TO 700 & 900
DBC0068F1Vxx-1	TWIN 2 in / 4 out	FIXED DC	7/16 (F)	VARIOUS CONFIGURATIONS AVAILABLE

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

