DBC0068F3V3-1

TWIN DIPLEXER APAC700/900

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 APAC700 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

BAND NAME	APAC700	900
Passband	698 - 803MHz	890 - 945MHz
Insertion loss	0.15dB typical	0.5dB typical
Return loss	20dB typical	
Maximum input power	160W (average) / 1.6kW (PEP)	160W (average) / 1.6kW (PEP)
Attenuation	885-945MHz = 55dB typical 865 - 885MHz = 50dB typical, 30dB minimum	698 - 803MHz = 70dB typical 865 - 885MHz = 50dB typical, 30dB 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	-20ºC to +60ºC | 4ºF to +140ºF
Ingress protection	IP67 (outdoors)
Lightning protection	IEC61312-1 8/20us, 5kA max
MTBF	>1,000,000 hours
Compliance	RoHS
Operational humidity	5% to 95%, non condensing

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
DBC0068F3V1-1	TWIN, 2 in / 4 out	FIXED DC	DIN 7-16 (F)	DC ON APAC700
DBC0068F3V3-1	TWIN, 2 in / 4 out	FIXED DC	DIN 7-16 (F)	DC ON APAC700 & 900

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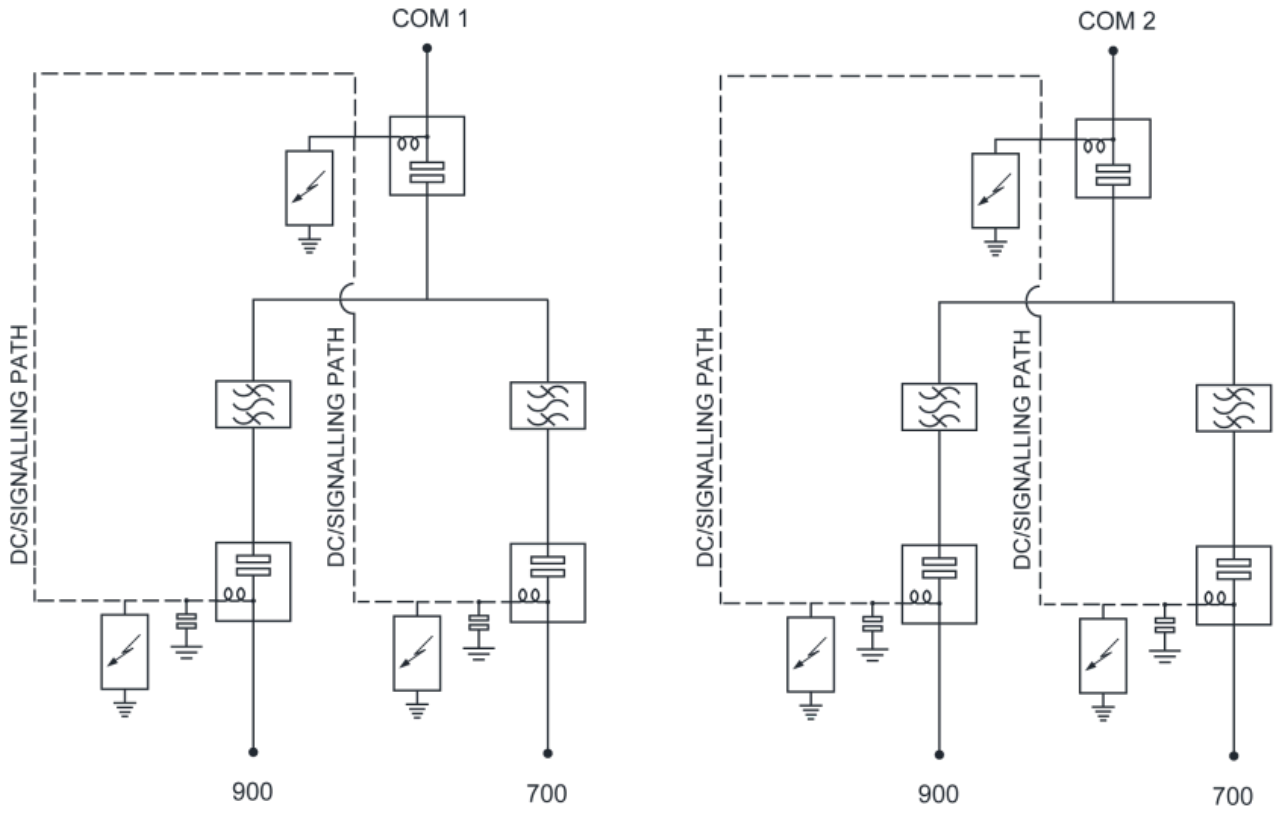
ELECTRICAL BLOCK DIAGRAM



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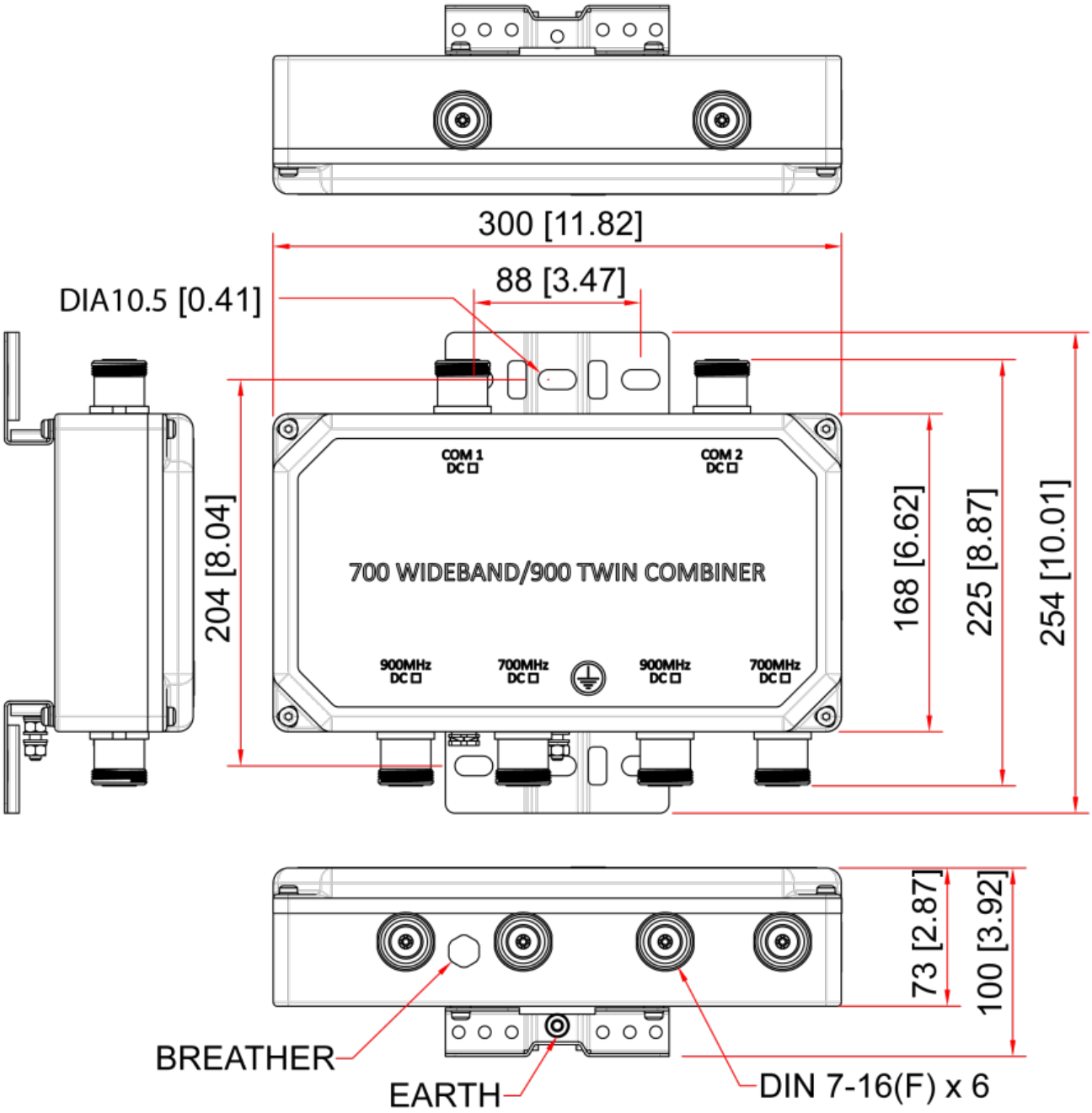

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