



TBC0026F1V51-1 TRIPLEXER 700/850/1900-AWS

technical specifications			
Band Name	700	850	1900-AWS
Passband	698 - 798MHz	824 - 894MHz	1710 - 2170MHz
Insertion loss	0.25dB maximum @ 698 - 793MHz 0.35dB maximum @ 793 - 798MHz	0.25dB maximum	0.2dB maximum
Return loss	20dB minimum @ 698 -798MHz 24dB typical @ 746 - 787MHz	24dB typical	24dB typical

electrical	
Impedance	50Ohms
Intermodulation products	-161dBc typical / -153dBc maximum all ports with 2 x 20W carriers
Maximum input power	300W (average) / 3kW (PEP)
Isolation from port to port	50dB minimum @ 698 - 793MHz, 824 - 894MHz & 1710 - 2170MHz 35dB minimum @ 793 - 798MHz
Phase linearity over any 10MHz	< 10°
Group delay over any 10MHz	< 15ns

dc / aisg	
A field selectable DC/AISG path is achieved via mechanical links on a IEC60130-9, 8-pin female connector (see mechanical diagram). It isKaelus's recommendation that due toAISG link budget reasons that a maximum of 2 DC/AISG paths are activated simultaneously without active repeating of the AISG signal	
Passband	0 - 3MHz
Insertion loss, single DC/AISG pass	1dB maximum
Return loss, single DC/AISG pass	12dB minimum

Insertion loss, two DC/ISG pass	4.5dB typical
Return loss, two DC/ISG pass	9dB typical
Input voltage range	± 31V
DC current rating	2A continuous, 4A peak

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	3,000m 10,000ft maximum
Lightning protection	IEC61000-4-5, RF: ±5kA maximum (8/20us)
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1, RoHS

mechanical

Dimensions H x D x W (single unit)	236 x 168 x 81mm 9.3 x 6.6 x 3.2ins
Dimensions H x D x W (twin unit)	236 x 168 x 165mm 9.3 x 6.6 x 6.5ins
Weight	6.25kg 13.7lbs (single unit) 13.7kg 27.4lbs (twin unit)
Finish	Painted, light grey (RAL7035)
Connectors	DIN 7-16 (F) x 4 long neck, sniffer port: N-female x1 (Optional) (single unit) DIN 7-16 (F) x 8 long neck, sniffer port: N-female x2 (Optional) (twin unit)
Mounting	Pole/wall bracket supplied with two metal

