

TETRA UHF

DBLC-TET-N

Branch Line Antenna Combiner

12/04/2013 v6



- Combines two TETRA radios on the same antenna
- •Combines two antennas on the same radio

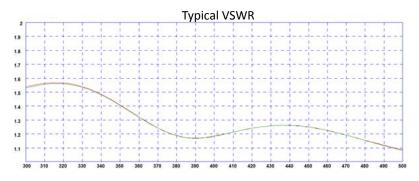
When you can only fit one antenna on a vehicle, then this combiner is the solution providing > 26dB isolation over 380-430MHz with an antenna match at 1.2:1 with low insertion loss.

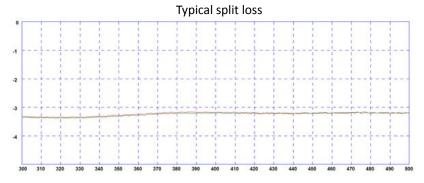
Technical Note:

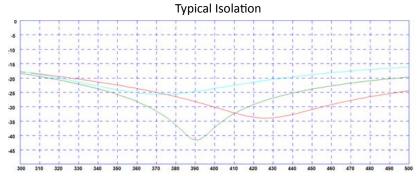
The isolation provided by this device is dependent on the antenna VSWR. An antenna match of 1.5:1 VSWR will result in a reduction of isolation to 20dB.

Higher VSWR on the antenna port will result in a further reduction in isolation between the TX ports.

During operation extreme care should be taken to ensure that the VSWR of the antenna connected to the combiner does not exceed 1.5:1.



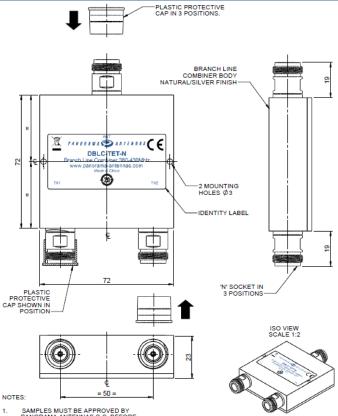




Red Plot – 1:1 load on antenna port Green Plot – 1.2:1 load on antenna port Aqua Plot – 1.5:1 load on antenna port



Technical Drawing



- SAMPLES MUST BE APPROVED BY PANORAMA ANTENNAS Q.C. BEFORE COMMENCING PRODUCTION.
- ALL MATERIALS USED MUST BE RoHS COMPLIANT.

Part No

D	В	L	C-7	ΓΕ	Т-	N

		DBLC-TET-N			
Electrical Data					
Frequency Range (MHz)		380-430			
Split Loss		3dB			
Insertion Loss		< 0.5dB			
	≥ 26dB	VSWR of 1.1:1 at antenna port			
Isolation TX1 - TX2	≥ 26dB	VSWR of 1.2:1 at antenna port			
	≥ 20dB	VSWR of 1.5:1 at antenna port			
Typical VSWR at Tx1 / Tx2	< 1.5:1	VSWR of 1.5:1 at antenna port			
Max input power (W)		20 per port			
Mechanical Data					
	Length	72 (2.83")			
Dimensions (mm)	Width	72(2.83")			
	Height	23 (0.90")			
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)			
Material		Aluminium			
Colour		Natural / Silver			
Termination		N sockets on all ports			



Panorama Antennas Ltd

Frogmore, London, SW18 1HF, United Kingdom

T: +44 (0)20 8877 4444 F: +44 (0)20 8877 4477

E: sales@panorama-antennas.com www.panorama-antennas.com

Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

Copyright ${\hbox{$\mathbb C$}}$ Panorama Antennas Ltd. All rights reserved.