

DCB

DC Block

Technical Product Data



Features

- Blocks DC voltage
- Small Form Factor

2.5 (not including connectors) x 0.75 x 0.875 in.

Extremely Flat Group Delay

Less that 1ns variation

Excellent Flatness

Gain | L1 - L2 | < 1.0 dB

• Low Insertion Loss < 1.0dB typical

Description

The DCB GPS DC Block (GNSS DC Block) is a one input, one output device that is designed to block unwanted DC voltage anywhere in a system network. The DCB features a miniaturized housing to use when small form factors are required. The frequency response covers the GPS L1, L2, L5, Galileo and GLONASS frequencies (entire L-band) with excellent flatness. In the normal configuration, the RF input and output will block DC from both the input and output.

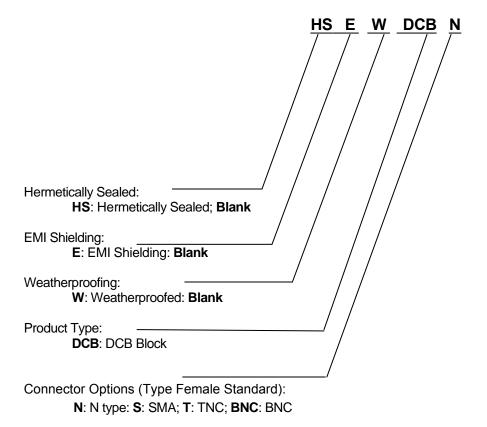
Electrical Specifications, $T_A = 25^{\circ}C$

Parameter	Conditions	Min	Тур	Max	Units
Freq. Range	Ant – J1	1.1		1.7	GHz
In/Out Imped.	Ant, J1		50		Ω
Insertion Loss	Ant – J1,	0.5	1.0	1.5	dB
Input SWR	J1 - 50Ω			1.5:1	-
Output SWR	Ant - 50Ω			1.5:1	-
Flatness	L1 – L2 ; Ant – J1		0.5	1	dB
Reverse Isolation	J1 – Ant	35			dB
Group delay Flatness	τ _{d,max} - τ _{d,min} : Ant – J1			1	ns

Available Options

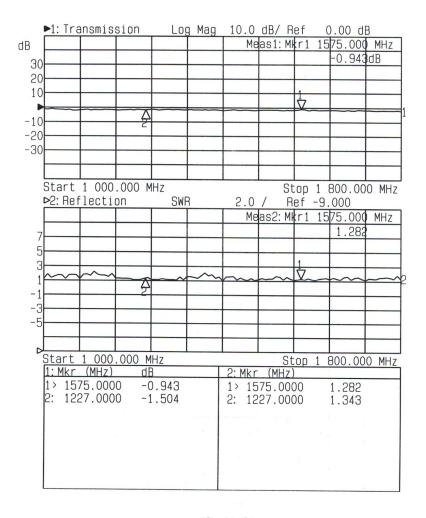
Pass/Block DC Options					
	Both Input/Antenna Port and Output are DC Blocked				
RF Connector Options					
Connector Options	CONNECTOR STYLE				
	Type N-female				
	Type SMA-female				
	Type TNC-female				
	Type BNC-female				

Part Number



Performance

Input SWR (Ant. Port) and Frequency Response: Ant. To J1 (Typical, type N conn.):



Mechanical

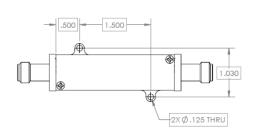
<u>Dimensions</u>: Height: 0.875"

Length (not including connectors) Body: 2.5"

Width: 0.75" (+0.438" including mounting tabs)

Weight: 3.13 oz. (88.7 grams)

Operating Temp. Range: -40° to + 75°C







GPS NETWORKING	ASSY, 1X1 MINI		No Not Scale Dwg. Hemove A.t sum And Sharp Edges to .020 Rard Max	
	8C 08/17/15	Design trig Prig trig Reset two blands	Townson	
SPSE tradable Sted Poscio West CO-61007	Dwg-Number ASSY, IXI MINI	See Note	Anguryr Color	