



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 than 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.

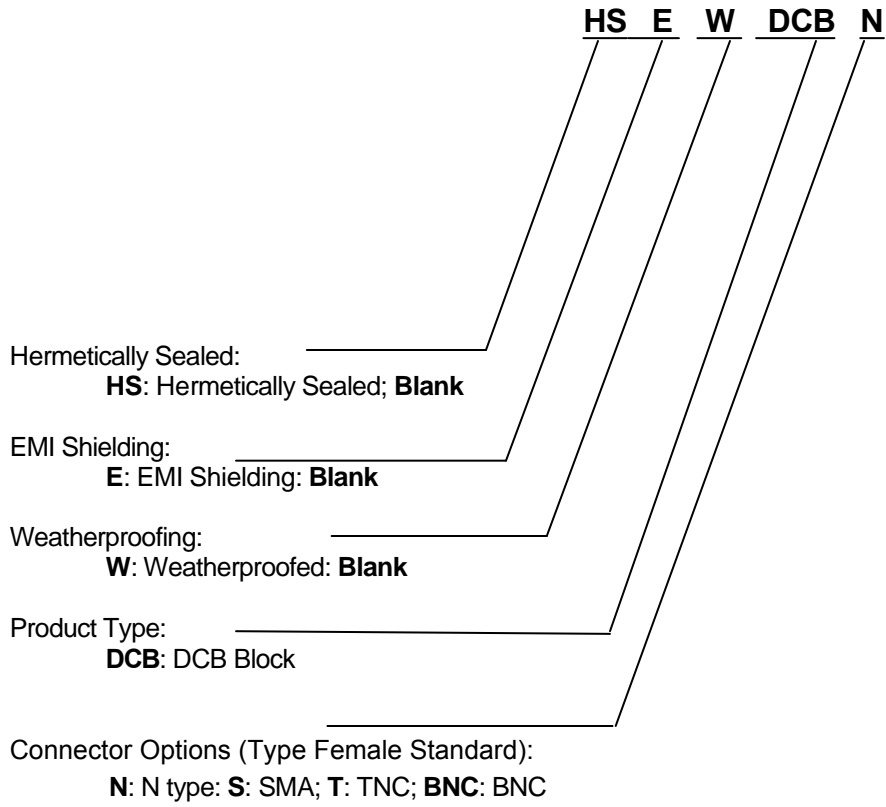
Electrical Specifications, $T_A = 25^{\circ}\text{C}$

Parameter	Conditions	Min	Typ	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	$\tau_{d,max} - \tau_{d,min}$; 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.):

