



# VATTENDCB

## Technical Product Data

### Features

- **Variable Attenuation Range from 0-25dB**  
1dB  $\geq$  ATTEN  $\geq$  25dB
- **Small Form Factor**  
2.5 (not including connectors) x 0.75 x 0.875 in.
- **DC Block Antenna Voltage**

### Description

The VATTENDCB GPS RF Active Variable Attenuator is a one input, one output device with variable attenuation range from 1dB to 25dB, user selected pot range control. The device is available in a miniaturized housing. The frequency response covers the GPS L1/L2 and GLONASS bands with excellent flatness. In the DC Blocked configuration, the RF output (J1) will pass DC from the connected GPS receiver to power the active variable attenuator and then block the DC at the input of the attenuator going to the antenna.

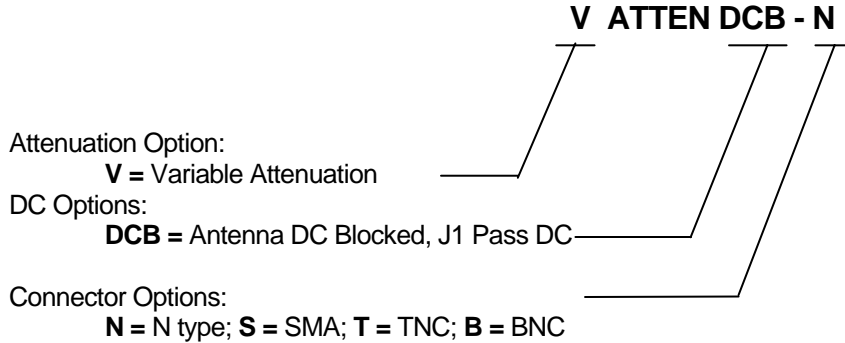
### Electrical Specifications, $T_A = 25^{\circ}\text{C}$

Parameter	Conditions	Min	Typ	Max	Units
Freq. Range	Ant – J1	1.1		1.7	GHz
In/Out Imped.	Ant, J1		50		$\Omega$
Attenuation	Ant – J1, Specified by the Customer	1		25	dB
Input SWR	J1 - 50 $\Omega$			1.8:1	-
Output SWR	Ant - 50 $\Omega$			1.8:1	-
Gain Flatness	L1 – L2  ; Ant – J1		0.5		dB
Group delay Flatness	$\tau_{d,max} - \tau_{d,min}$ : Ant – J1			1	ns

## Available Options

<b>Attenuation Options</b>	
Variable Attenuation Range	1.0dB ≥ Atten. ≥ 25.0 dB, (Pot Range Control)
<b>Pass/Block DC Options</b>	
DC Blocked	Block DC Input (Antenna), Pass DC J1
<b>RF Connector Options</b>	
Connector Options	CONNECTOR STYLE
	Type N
	Type TNC
	Type BNC
	Type SMA

## Part Number



## Mechanical

Dimensions:                    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