



VATTENPDC

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.
- **Passes DC Antenna Voltage**

Description

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

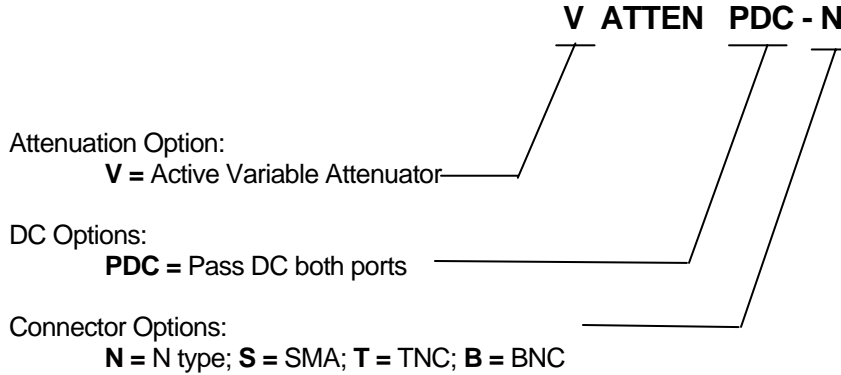
Electrical Specifications, $T_A = 25^{\circ}\text{C}$

Parameter	Conditions	Min	Typ	Max	Units
Freq. Range	Ant - J1	1.1		1.7	GHz
In/Out Imped.	Ant, J1		50		Ω
Attenuation Range	Ant - J1, Specified by the Customer	1.0		25.0	dB
Input SWR	J1 - 50 Ω			1.8:1	-
Output SWR	Ant - 50 Ω			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

Attenuation Options	
Variable Attenuation Range	1.0dB ≥ Atten. ≥ 25.0 dB, (Pot Range Control)
Pass/Block DC Options	
Pass DC	Pass DC J1 to Antenna
RF Connector Options	
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