

VATTENDCB

Variable GPS Attenuator Technical Product Data



Features

Variable Attenuation Range

Attenuation Range 0 - 20dB

- 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

|L1 - L2| < 1.0 dB

- Low SWR < 1.5dB typical
- DC Block Antenna Voltage

Description

The VATTENDCB GPS RF Active Variable Attenuator is a one input, one output device with variable attenuation range from 0dB to -20dB, 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 = 25⁰C

Parameter	Conditions	Min	Тур	Max	Units	
Freq. Range	Ant – J1	1.1		1.7	GHz	
In/Out Imped.	Ant, J1		50		Ω	
Attenuation	Ant – J1, User Selected Attenuation value (X) between 0 - 20dB	0	Х	20	dB	
Input SWR	J1 - 50Ω			2:1	-	
Output SWR	Ant - 50Ω			2:1	-	
Flatness	L1 – L2 ; Ant – J1		0.5	1	dB	
Group delay Flatness	$\tau_{d,max}$ - $\tau_{d,min}$: Ant – J1			1	ns	
Required DC Input	DC Input on J1	3.6		15	Vdc	
Current	Variable Attenuator Current Draw, All ports - 50Ω	12	15	18	mA	

Available Options

Connector Options	CONNECTOR STYLE
	Type N
	Type TNC
	Type BNC
	Type SMA

Part Number

Product Type:

VATTEN = Mini Variable Attenuator(0-20dB)

DC Options:

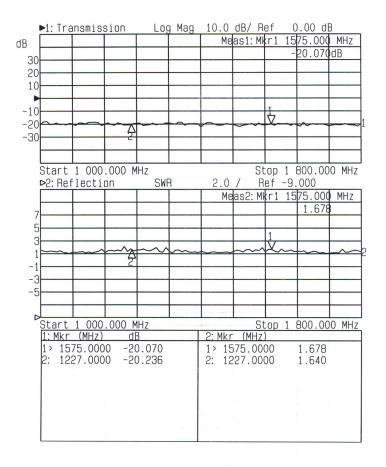
DCB = Antenna DC Blocked, J1 Pass DC

Connector Options:

N = N type; S = SMA; T = TNC; B = BNC

Performance

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



Mechanical

Dimensions:

Height: 0.875"

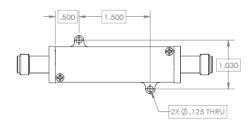
Length (not including connectors) Body: 2.5"

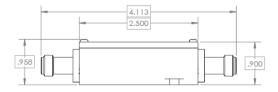
Width: 0.75" (+0.438" including mounting tabs)

Weight:

3.13 oz. (88.7 grams)

Operating Temp. Range: -40° to + 75°C







GPS NETWORKING	ASSY, 1X1 MINI			Do Not Scole Dwg Hemove All suffi And Sharp Edge to 020 Rad Was	
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