



L1/L2FPDC

Technical Product Data

Features

- **Passes GPS L1 and L2 Frequencies**
- **Excellent Passband Ripple**
L1/L2 Ripple < 1.0 dB

Description

The L1/L2FPDC is a one input, one output RF device which provides additional GPS L1 and L2 filtering. The frequency response covers both L1 and L2 with low insertion loss. In the normal configuration, the RF output (J1) passes DC from the connected GPS receiver through the input port to the antenna, allowing the GPS receiver to power the antenna.

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

Parameter	Conditions	Min	Typ	Max	Units
Pass Band: L1	Ant – J1	1.570	1.575	1.580	GHz
Pass Band: L2	Ant – J1	1.222	1.227	1.232	GHz
In/Out Imped.	Ant, J1		50		Ω
Insertion Loss	Ant, J1, 50 Ω	-2.8	-3.0	-3.2	dB
Input SWR	J1 - 50 Ω , L1 & L2 Passbands			2.0:1	-
Output SWR	Ant - 50 Ω			1.6:1	-
Gain	J1	-2.0	-2.5	-3.0	dB
Passband Ripple	Ant – J1, L1 & L2 Passbands		1	2	dB
Stopband Rej: L1	1575 +/- 30MHz, Relative to the passband		30		dB
Stopband Rej: L2	1227 +/- 30MHz, Relative to the passband		30		dB

Available Options

Network Power Supply		
Source Voltage Options	VOLTAGE INPUT	STYLE
	110VAC	Transformer (Wall Mount)
	220 VAC	Transformer (Wall Mount)
	240 VAC (United Kingdom)	Transformer (Wall Mount)
	Customer Supplied DC 9-32 VDC	Military Style Connector
Output Voltage Options ⁽¹⁾	DC VOLTAGE OUT	MAX CURRENT OUT FOR CORRESPONDING Vout ⁽²⁾
	5 V	100mA
	7.5V	120mA
	9V	130mA
	12V	160mA
	15V	200mA
	Custom	TDB
Pass/Block DC Options		
Pass DC ⁽¹⁾	All Ports Pass DC	
DC Blocked ⁽¹⁾	Ant is DC blocked, Pass DC J1	
RF Connector Options		
Connector Options	CONNECTOR STYLE	CHARGE
	Type N	NC
	Type SMA	NC
	Type TNC	NC
	Type BNC	NC

(1). With Network Option, any RF port (input or output) can be DC blocked or pass network DC voltage.

Part Number

L1/L2FPDC - N / 5 / 110

Network Option:
N = Network Option; **Blank** = No Network

DC Options:
DCB = Ant. DC Blocked; **PDC** = Pass DC

Connector Options:
N = N type; **S** = SMA; **T** = TNC; **B** = BNC

DC Output Voltage:
3.3, 5, 7.5, 9, 12, 15, CXX (Custom: "XX" denotes desired V)

Source Voltage:
110 Transformer, **220** Transformer, **240** Transformer, **MC** – Military DC Connector

Mechanical

Dimensions:

Height: 1.3"
 Length (not including connectors) Body: 2.5"
 Base Plate: 3.25"
 Width: 2.5"

Weight: 10 oz. (286 grams)

Operating Temperature Range: -40° to + 75°C