



# MIL-NDCBS1X3

## Military Networked Passive 1X3 GPS Splitter

### Technical Product Data



#### Features

- **Excellent Gain Flatness**  
|L1 – L2| < 0.7dB
- **Extremely Flat Group Delay**  
Less than 1ns variation
- **Phase Matched Outputs**  
Phase (J1 – J2) < 1.0°

#### Description

The MIL-NDCBS1X3 GPS Splitter is a one input, three output device. The frequency response covers GPS L1, L2, L5, Galileo, and GLONASS bands with excellent gain flatness. The unit is completely MIL Qualified. It will accept any DC voltage from 8-32 VDC which is regulated down to 5VDC to power the GPS Antenna. The 5 VDC is sent to the antenna via the center conductor on the antenna port. The RF outputs (J2, J3, and J4) are DC Blocked. J2 and J3 ports are TNC connectors and the J4 port is a type N Connector.

#### Electrical Specifications, T<sub>A</sub> = 25<sup>0</sup>C

Parameter	Conditions	Min	Typ	Max	Units
Freq. Range	Ant – Any Output, Unused Outputs - 50Ω	1.1		1.7	GHz
Input/Output Impedance	J1, Ant, J2, J3, J4		50		Ω
Input/Output SWR	All Unused ports - 50Ω			2.0:1	-
Insertion Loss	Ant – J2- 50Ω	-5.7	-6.3	-7.0	dB
	Ant –J3- 50Ω	-6.4	-7	-7.6	dB
	Ant-J4-50 Ω	-7.9	-8.5	-9.1	dB
Gain Flatness	L1 – L2  : Ant – Any Output, Unused Outputs - 50Ω			0.7	dB
Isolation	Adjacent Ports: Ant - 50Ω	-10	-15		dB
	Opposite Ports: Ant - 50Ω	-15	-20		

#### Network Power Supply

Source Voltage Options	VOLTAGE INPUT		STYLE
		Customer Supplied DC 8-32 VDC	
	Pin Configuration	A B C	A— (+) positive B—Housing Ground C—Common Ground
		5 V	120mA



Contact NavtechGPS for product details. [www.NavtechGPS.com](http://www.NavtechGPS.com)  
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**Part Number**

**MIL N DCB S1X3**

**MIL** - Military Spec Qualified -----

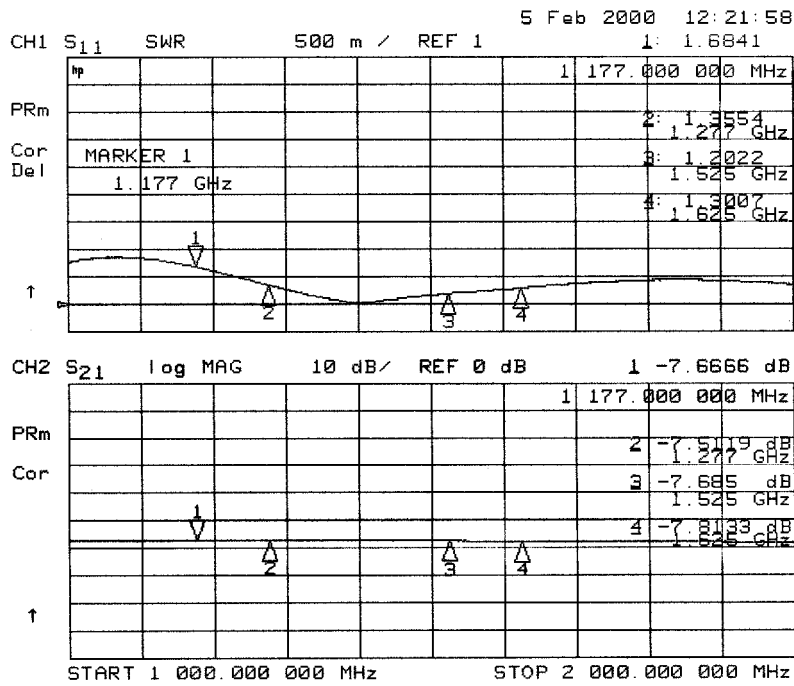
**N** - Networked – External Power supply input -----

**DCB** – DC Blocked -----

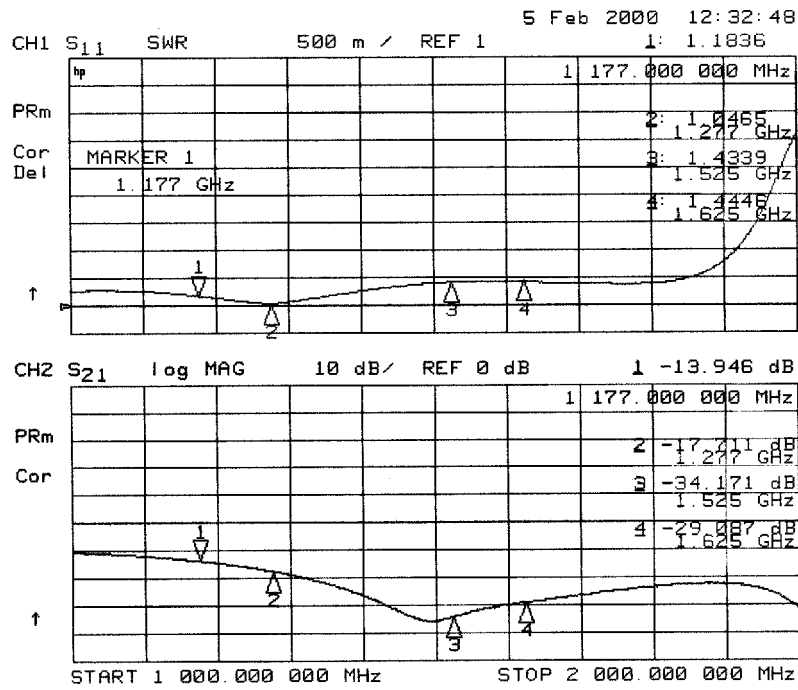
**S1X3** – Splitter one input three outputs -----

**Performance**

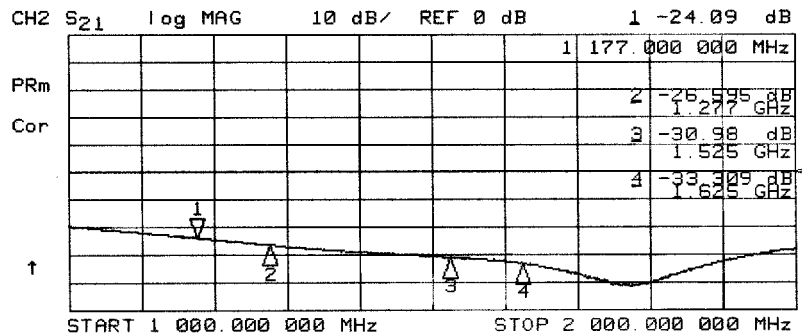
Input SWR: Ant. J2, J3, J4 -50Ω and Freq. Response: Ant. To J2, J3, J4



Output SWR: Any output, all other ports - 50Ω, and Adjacent Port Isolation:



Opposite Port Isolation:



Contact NavtechGPS for product details. [www.NavtechGPS.com](http://www.NavtechGPS.com)  
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