S14 – GNSS Splitter 1 in 4

Description:

The S14 GPS Splitter is a one-input, four-output GPS device.

This product typically finds application where an input from an active GPS roof antenna is split evenly between four receiving GPS units.

In this scenario, the S14 can be configured to pass DC from an RF output (J1) to the antenna input port in order to power an active GPS antenna on that port. The second RF output would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to that port.

The S14 splitter comes with many available options to meet your specific needs. Please contact us for further information on product options or specifications.

S14

S14S

Features:

- Amplified and Passive available
- Passes GPS L1 & L2, Glonass, Galileo
- Excellent Gain Flatness | L1 – L2 | <1dB

Do you have questions about this product? Contact us:

AuCon GmbH
www.aucon.de / info@aucon.de
Hohenlindener Str. 1 / D-81677 München
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Fax: +49 (0)89-910 599 26

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RF PORTS

> Input	1
> Output	4

ELECTRICAL SPECIFICATION

> Input/Output Impedance	50 Ω
> Bandwidth	1.0 – 2.0 GHz
> Gain (active)	
Standard	21 dB (± 1)
High Isolation Option	12 dB (± 1)
> Attenuation (passive)	
Typical	7.5 dB
> SWR Input / Output	2.0 : 1
> Noise Figure (active)	1.8 dB max.
> Gain Flatness	
Active	1 dB max.
Passive	0.5 dB max.
> Amplifier Balance (Port to Port)	0.5 dB max.
> Phase Balance	1.0 ° max.
> Group Delay	1 ns max.
> Isolation (active/passive)	
Adjacent Ports	21 dB min.
> Isolation (High Iso. Option)	
Adjacent Ports	44 dB min.
> DC Input	
External Supply	3 – 28 V DC
Pass DC active via J1	3 – 16 V DC
Pass DC passive	16 V DC max.
Block DC (200 Ohm Last)	14 V DC max.
> Current	
Consumption (active w/o Ant.)	16 mA max.
Thru Current DC Pass	250 mA max.
Thru Current external Supply	see below
> Max. HF Input ohne Beschädigung	
Aktiv	0 dBm
Passiv	30 dBm

DC IN for powered option must be 2V greater than desired DC Voltage Out. Maximum DC IN is 35V when 1275B powered option is included. Maximum combined DC current draw out all ports of the device is a function of the DC input voltage and desired DC output voltage, according to the following:

Iout ≤ 1.4 / ($V_{DC\ IN}$ - $V_{DC\ OUT}$) - 0.016 Amps

(For powered option with a wall Transformator, DC IN = 9V)

PHYSICAL SPECIFICATION

> Operating Temperature	- 40 bis 85°C
> Dimensions Standard (L x H x D)	83 x 33 x 64 mm
Dimensions Slimline	83 x 13 x 83 mm
> Weight Standard	275 g
Weight Slimline	110 g

OPTIONs

> Power Supply
-Input Voltage
Wall Transformator 110 V AC
Wall Transformator 230 V AC
Wall Transformator 240 V AC
Military- or Quick Connector (5-28V DC)
-Output Voltage
3.3, 5, 7.5, 9, 12 V, variable, custom

> RF Connectors	
N female	(only standard housing)
TNC female	(only standard housing)
SMA female	
> High Isolation Option	
> DC specification (for each Port)	
DC Pass	
DC Block	(via 200 Ohm load)

ORDERING INFORMATIONS

Contact AuCon for informations regarding price/availability and test data. CoC included in shipping.

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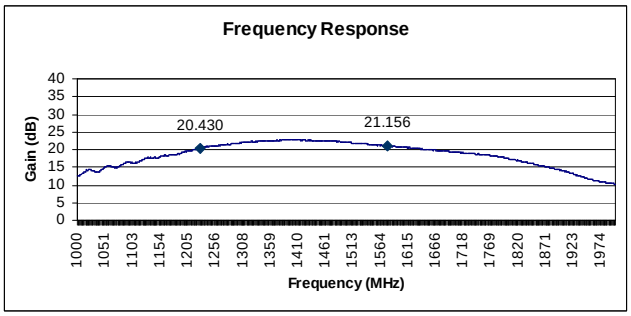
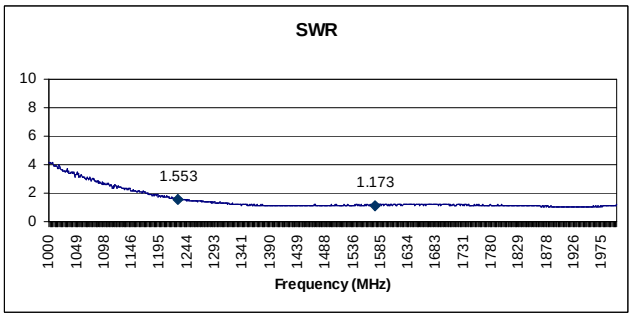
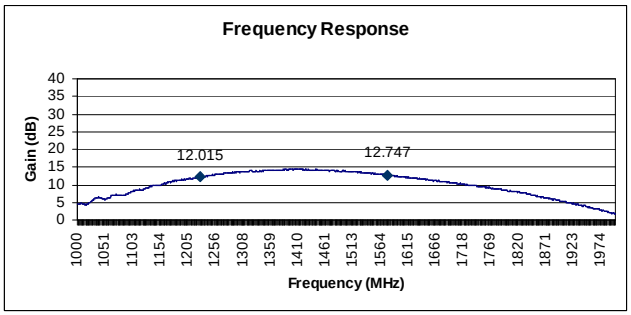
S14 – GNSS Splitter 1 in 4 – Performance Data

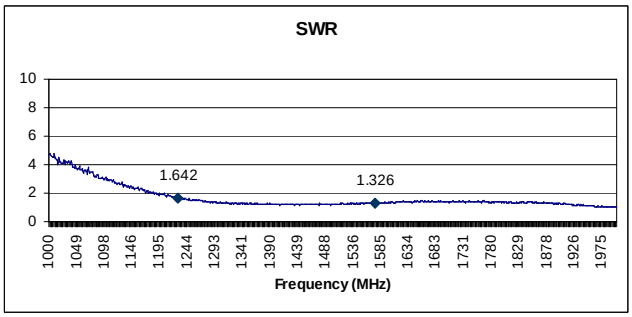
S14 Active – Normal



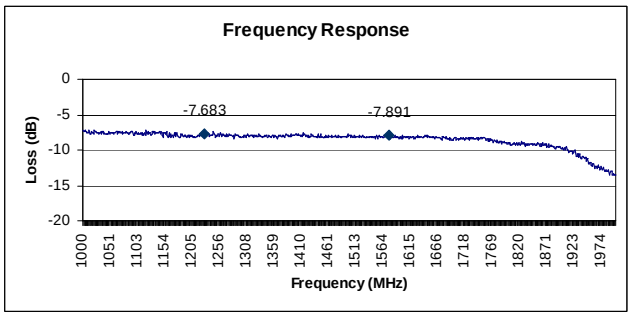


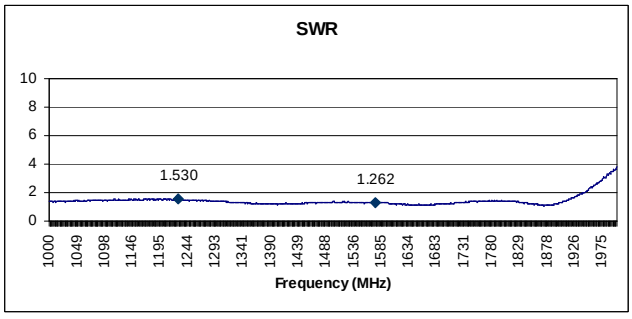
S14 Active – High Isolation Option





S14 - Passive





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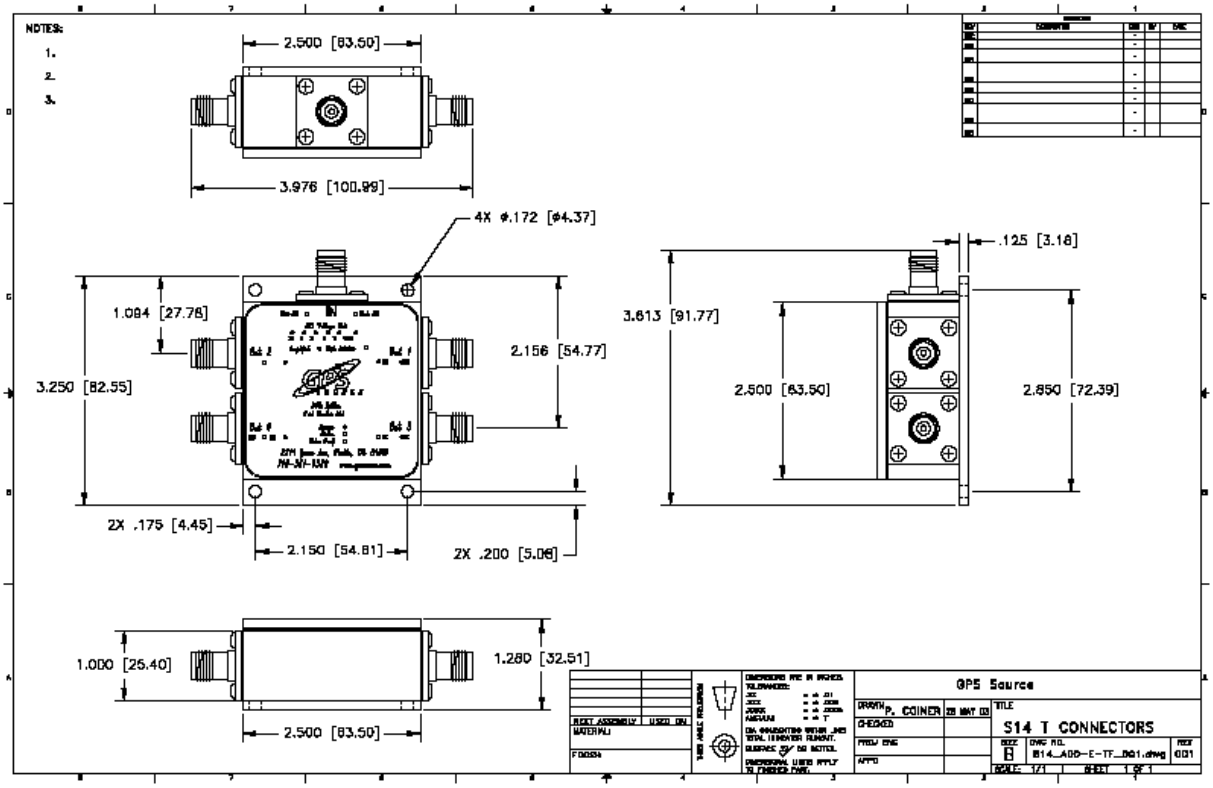

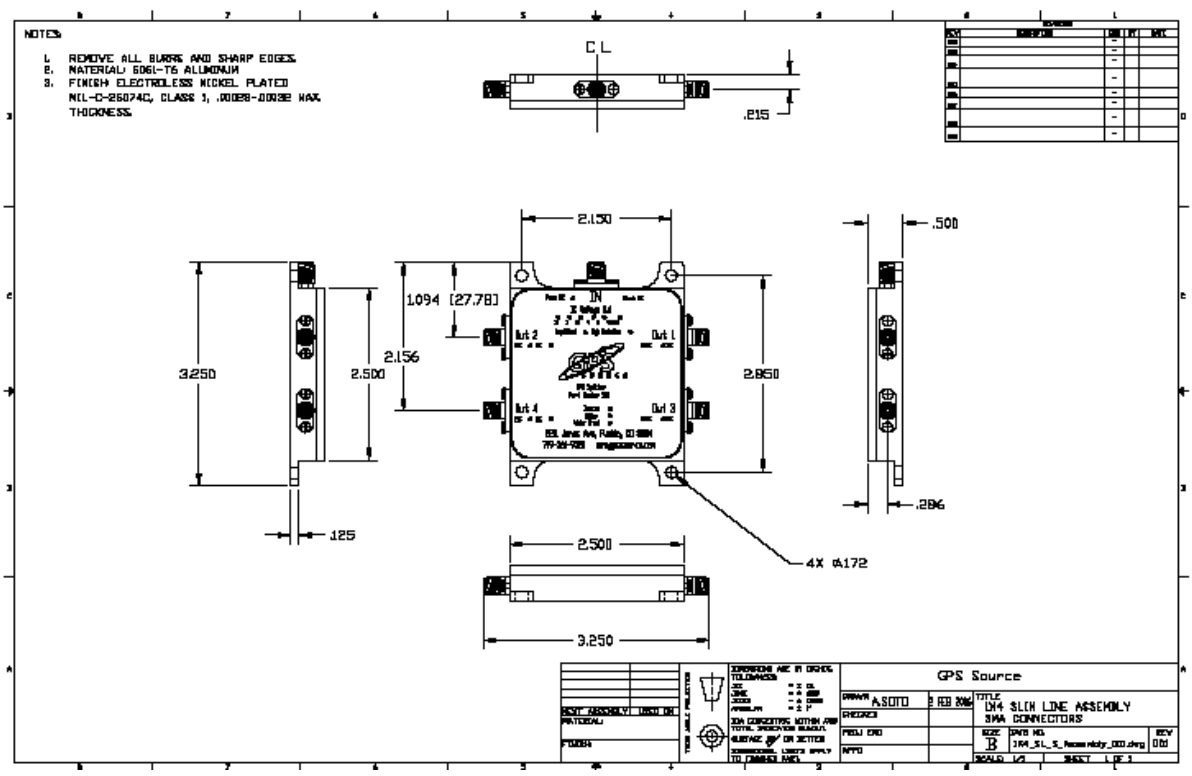

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