

MS14 – Military Qualified 1 in 4 GPS Splitter

Description:

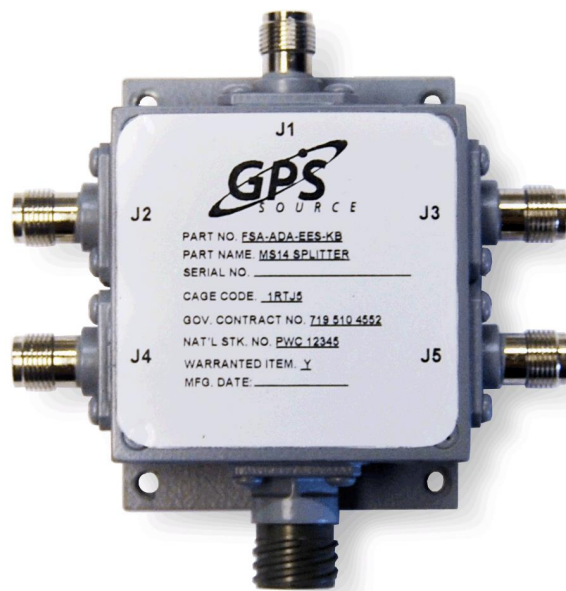
The military qualified MS14 GPS splitter is a one-input, four-output GPS device. This product typically finds application in where an input from an active GPS roof antenna is split evenly between four receiving GPS units.

The MS14 can be configured to pass DC from an RF output (J2) to the antenna input port (J1) in order to power an active GPS antenna on that port. The remaining RF outputs (J3 – J5) would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to that port. Alternatively, the MS14 can be configured with a MIL-STD-1275 compliant 28 VDC Power Supply that will power the active GPS antenna connected to J1

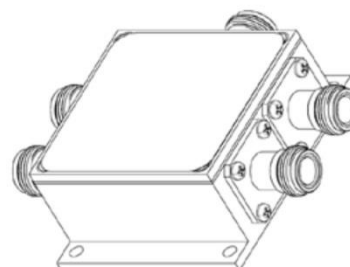
This device is designed for military applications and harsh environments where high reliability is required. The ruggedized housing of the MS14 is fully EMI shielded and runs ideal in EMI rich environments. There are many options available.

Features:

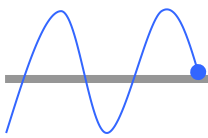
- Designed & Manufactured to Military Specifications
- Amplified & Passive Versions Available
- Passes GPS, Galileo & Glonass L1 / L2
- Excellent Gain Flatness | L1 – L2 | 2dB
- Many Options available



MS14



MIL Standards		
MIL-STD-1472	MIL-STD-1472	MIL-STD-1472
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HF Ports

- > Input 1
- > Output 4

ELECTRICAL SPECIFICATIONS

- > Input/Output Impedance 50 Ω
- > Bandwidth 1.0 – 1.7 GHz
- > Gain (active)
 - Standard 10 dB (\pm 1)
 - Custom 0 – 10 dB (\pm 1)
- > Attenuation (passive)
 - Typical 7.5 dB
 - Min. – Max. 6.5 – 8.5 dB
- > SWR Input / Output 2.0 : 1
- > Noise Figure (active) 3 dB max.
- > Gain Flatness
 - Active 2 dB max.
 - Passive 1 dB max.
- > Amp.Balance (Port to Port) 0.5 dB max.
- > Phasebalance 1.0 ° max.
- > Group Delay 1 Ns max.
- > Isolation (active/passive)
 - Adjacent Ports 16 dB min.
 - Opposite Ports 24 dB min.
- > Isolation (High Iso. Option)
 - Adjacent Ports 27 dB min.
 - Opposite Ports 31 dB min.
- > Output IP₃ (active) 18 dBm typ.
- > Output P_{1dB} (active) 4 dBm typ.
- > DC Input
 - External Supply 8 – 28 V DC
 - Optional DC Input on J2 Port 5 – 7.5 V DC
- > Current
 - Current Consumption of device 50 mA max.
 - Ant / Thru Current (DC IN on J2) 250 mA max.
 - Ant / Thru Current (Ext. Supply) 75 mA max.
- > Max. RF Input without Damage
 - Active 20 dBm
 - Passive 40 dBm

PHYSICAL SPECIFICATIONS

- > Housing MIL-Standard compliant regarding:
 - Temperature & Altitude, Explosive Atmosphere, Salt Fog, Fungus, Humidity, Sand & Dust, Vibration, Decompression, Flammability and more
- > Operating Temperature - 40 to 85°C
- > Dimensions (W x H x D) 83 x 33 x 64 mm
- > Weight 283 g

OPTIONS

- > Power Supply
 - Source Voltage
 - PM – Military Connector(16 - 32 V DC)
 - PMS-1275 (-1275B compliant)
 - PMS-704 (-704F compliant)
 - PMS 38999-1275 (-1275B compliant)
 - PMS 38999-704 (-704F compliant)
 - Output Voltage 3.3, 5, 7.5 V
- > RF Connectors
- > High Isolation Option
- > DC (on any Port)
 - DC Pass
 - DC Block

ORDER INFORMATION

Contact AuCon for pricing / availability and Performance data. CoC included.

