

MS12 & MS14

Military Qualified Splitters . . .

Allows input from an active GPS outdoor antenna to be split across two (MS12) or four (MS14) output devices.



MS12



MS14

BUILT TO MILITARY SPECS:

MIL-STD-810

MIL-E-5400

MIL-STD-1472

MIL-HDBK-454

MIL-STD-202

MIL-STD-1587

MIL-STD-883

MIL-STD-461

MIL-STD-704

- ✓ Designed and Manufactured to Military Specifications
- ✓ Amplified and Passive Versions Available
- ✓ Passes GPS, Galileo & GLONASS L1/L2
- ✓ Excellent Gain Flatness: Gain | L1 - L2 | < 2 dB
- ✓ MTBF (passive configuration) is 367,456 hours at 29°C and 332,884 hours at 71°C
- ✓ Surge Protection
- ✓ DC Output Voltage to the Antenna Port Available
- ✓ Weighs only .624 lbs (283 grams)
- ✓ Meets Environmental Specifications for Temperature and Altitude, Explosive Atmosphere, Salt Fog, Fungus, Humidity, Sand /Dust and Vibration
- ✓ RF Connector Options: N, SMA, TNC , BNC
- ✓ EMI Compliant - MIL-STD-461
 - Conducted Emissions
 - Radiated Emissions
 - Conducted Susceptibility



GPS LIVE INSIDE

An AS9100 Certified Company

MS12 & MS14 Electrical Specifications

Parameter	Conditions (Operating Temperature -40°C to 85°C)	Min	Typ	Max	Units
Freq. Range	Ant - Any Port, Unused Ports - 50Ω	1.2		1.7	GHz
Gain:					
- Amplified (Normal)	Ant - Any Port, Unused Ports - 50Ω	14	15	16	dB
- Amplified (Custom)	As specified (xdB, from 0 to 15 dB)	X-1	X	X+1	dB
Loss - Passive	Ant-Any Port, Unused Ports - 50Ω	3.5	4	5	dB
Input SWR	All Ports 50Ω			2.0:1	-
Output SWR	All Ports 50Ω			2.0:1	-
Noise Figure - Amplified	Ant - Any Port, Unused Ports - 50Ω, Gain = 15dB			3	dB
Gain Flatness					
- Amplified	L1 - L2 , Ant - Any Port, Unused Ports - 50Ω			2	dB
- Passive				1	dB
Amp. Balance	J2 - J3 , Ant-Any Port, Unused Ports - 50Ω			0.5	dB
Phase Balance	Phase (J2 - J3), Ant - Any Port, Unused Ports - 50Ω			1.0	Deg
Group Delay Flatness	T _{d,max} - T _{d,min} , J2 - J1 (Ant)			1	ns
Isolation					
-Amp/Pass (Norm) Gain = 15dB	Opposite Ports: Ant - 50Ω	16			dB
-Amp/ (Hi Isolation) Gain = 8dB	Opposite Ports: Ant - 50Ω	27			dB
Output IP ₃ (Amplified)	Ant-Any Port, Unused Ports - 50Ω, Gain = 15dB Tone spacing = 1MHz		21		dBm
Output P _{1dB} (Amplified)	Ant-Any Port, Unused Ports - 50Ω, Gain 15dB		8		dBm
DC IN	DC Blk	Any DC Blocked Port with a 200Ω Load		14	VDC
	Pass DC -Amplified -Passive	Non Powered Configuration, DC Input on J2		5	16 16
	Powered	Powered, Mil. Conn. (Normal & Emergency Conditions as Defined by MIL-STD-704F)		16	28 32 ⁽¹⁾
DC out (Powered) ⁽²⁾	Amplified, Powered, Mil. Conn., Ant Through Current = 75mA		5	9	VDC
Current (I _{internal})	Current Consumption of Device, excludes Ant Current		45	50	mA
Ant/Thru Current	Pass DC	Non-Powered Configuration, DC Input on J2		250	mA
	Powered	Powered, Mil. Conn. or Quick Connect Option		75	mA
Max RF Input - Amplified - Passive	Max RF Input Without Damage			20 40	dBm



GPS LIVE INSIDE

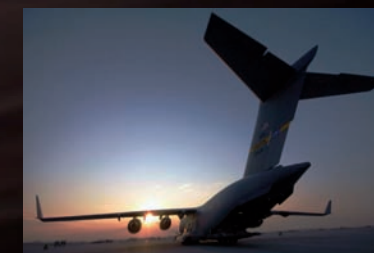
Please call for more information on our range of products

Head Office

64 Mission Drive
Pueblo, CO 81007
T: +1 719 561 9520
F: +1 719 565 0890
E: sales@gpssource.com
W: www.gpssource.com

Military Sales

T: +1 719 565-8589
E: bpaul@gpssource.com



Notes:

1. By design 1275B spike and surge protection assumes a 28 volt system, 33.3 V or greater will trigger over voltage protection circuitry.
2. DC output voltage to the antenna port (J1) may be specified by customer: 5V, 7.5V or 9V (default is 5V).

An AS9100 Certified Company