

GPS Splitter 1 in 8 Rack Mount Splitter

Type: RMS18

Features:

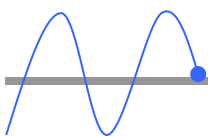
- Standard 19" Rack Mount Configuration
- Passes GPS L1/L2, GALILEO, GLONASS
- Numerous Options Available
- LED signal for operating status



Description:

The RMS18 Rack Mount Splitter is a one input, eight output GPS signal divider. This product typically finds application in a facility where an input from a single active GPS roof antenna is split evenly between eight outputs to create an indoor GPS signal distribution network. Typically the RMS18 is configured with an 110VAC input (230VAC also available) and a regulated DC output voltage is passed to the antenna input port in order to power an active GPS antenna on that port. In this scenario, the RF outputs (J1 - J8) would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to those ports. The RMS18 splitter comes with many available options to meet your specific needs. . A Power -LED signal the operating condition of the device.

The RMS18 splitter comes with many available options to meet your specific needs. Please call, fax, or email us (vertrieb@aucon.de) for further information on product options or specifications.



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Electrical Specifications, Operating Temperature -40 – 85° C

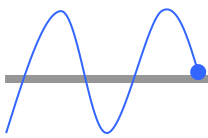
Parameter		Conditions	Min	Typ	Max	Unit
Frequency Range		Ant – Any Port, Unused Ports - 50 Ω	1		1.8	GHz
In/Out Impedance		Ant, J1, J2, J3, J4, J5, J6, J7, J8		50		Ω
Gain		Ant – any Port, Unused Ports - 50 Ω		TBD		dB
-Amplified (Cust)			1	0	2	
-Amplified (Hi Iso.)						
Input SWR		All Ports 50Ω			2.0:1	-
Output SWR		All Ports 50Ω			2.0:1	-
Noise Figure		Ant – any Port, Unused Ports - 50 Ω			2.2	dB
Gain Flatness		L1 - L2 , Ant – any Port, Unused Ports - 50 Ω			2	dB
Amp. Balance		J1 - J2 , Ant – any Port, Unused Ports - 50 Ω			0.5	dB
Phase Balance		Phase (J1 - J2), Ant – any Port, Unused Ports - 50 Ω			1.0	deg
Group Delay Flatness		$\tau_{d,max} - \tau_{d,min}$, Ant – any Port			1	ns
Isolation						
-amplified (Hi Iso.)		adjacent Ports: Ant - 50Ω	38			dB
		opposite Ports: Ant - 50Ω	44			dB
AC IN	110	Wall Mount Transformer ⁽³⁾		110		VAC
	220/230	Wall Mount Transformer (Various Intl. Plug types available) ⁽³⁾		230		VAC
DC IN	DC Blk	Any DC blocked Port with a 200 Ω Load			14	VDC
	Pass DC -amplified	Non powered Configuration, DC Input on J1	3		16	VDC
	Powered	Powered, Mil. Conn. or Quick Connector	3 ⁽¹⁾		28 ⁽²⁾	VDC
Device Current		Current Consumption of device, excludes Ant.			16	mA
Ant/Thru Current	Pass DC	Non-powered Configuration, DC Input on J1			250	mA
	Powered	Powered, Mil. Conn. or Quick Conn. Option			Note 3	mA
Max RF Input -amplified		Max RF input without damage			0	dBm

Notes:

- DC IN for powered option must be 2V greater than desired DC Voltage out
- 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:

$$I_{out} \leq 1.4 / (V_{DC IN} - V_{DC OUT}) - 0.016 \text{ Amps}$$

For powered option a wall mount transformer (Voltage Input = 110/220/240 VAC), VDC IN is 9V.

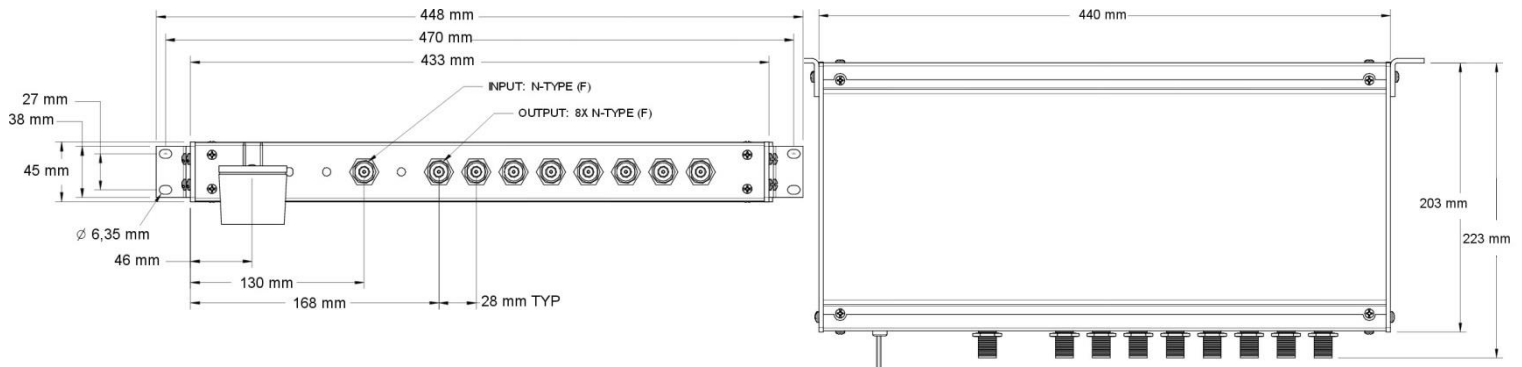
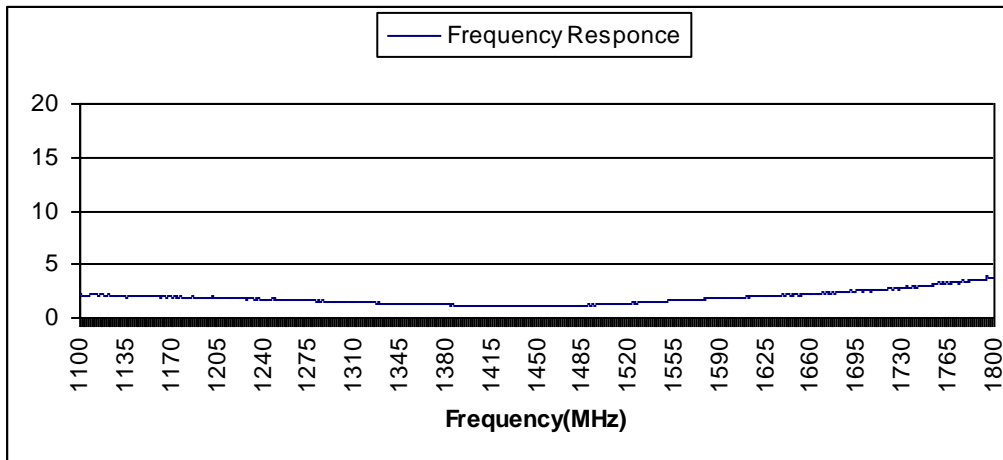
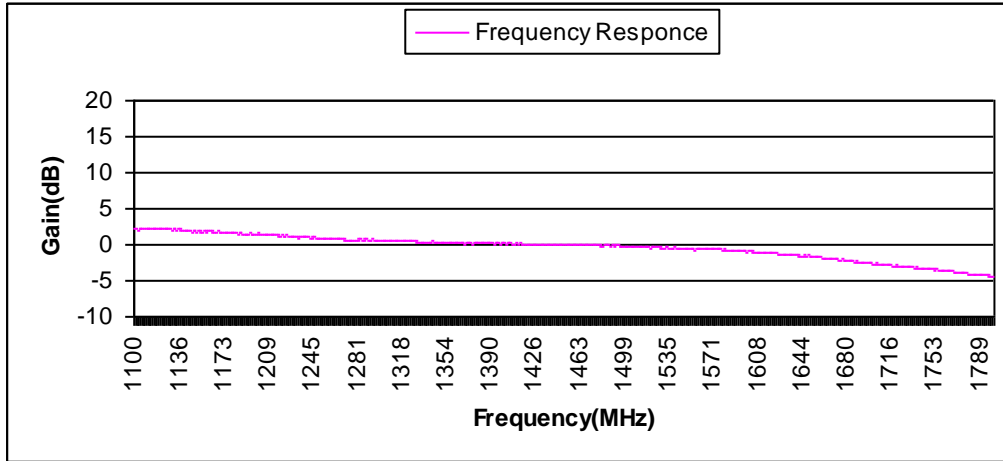


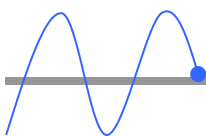
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Performance Data & Product Drawing:

RMS18 Active - Hi Isolation





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Available Options:

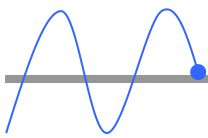
Power Supply Options:		
Source Voltage Options	Input Volt	Typ
	110 VAC	Wall Mount Transformer
	230 VAC	Wall Mount Transformer
	240 VAC (U.K.)	Wall Mount Transformer
	DC 5-28 VDC	Military Style Connect or w/leads
Output Voltage Options (1)	DC Volt Output ⁽²⁾	
	3.3	
	5	
	7.5	
	9	
	12	
	Variable (3-12V)	
Custom		
RF Connector Options:		
Connector Options	Connector Typ	Limitations
	N (Male & Female)	
	SMA (Male & Female)	
	TNC (Male & Female)	
	BNC (Male & Female)	Performance Not Guaranteed
Housing Options:		
Housings	Housing Type	Limitations
	19 x 8 x 3.5 in Rack Mount	keine
Port Options:		
Pass DC(1)	All Ports Pass DCV	
DC Blocked(1)	J2 – J8 are DC blocked & 200Ω loaded, DC is passed J1 to ANT	

Notes:

1. With Powered Option, any or all RF Ports (input or output) can be DC blocked or can pass the
2. 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:

$$I_{out} \leq 1.4 / (V_{DC IN} - V_{DC OUT}) - 0.016 \quad \text{Amps (or 250mA max)}$$

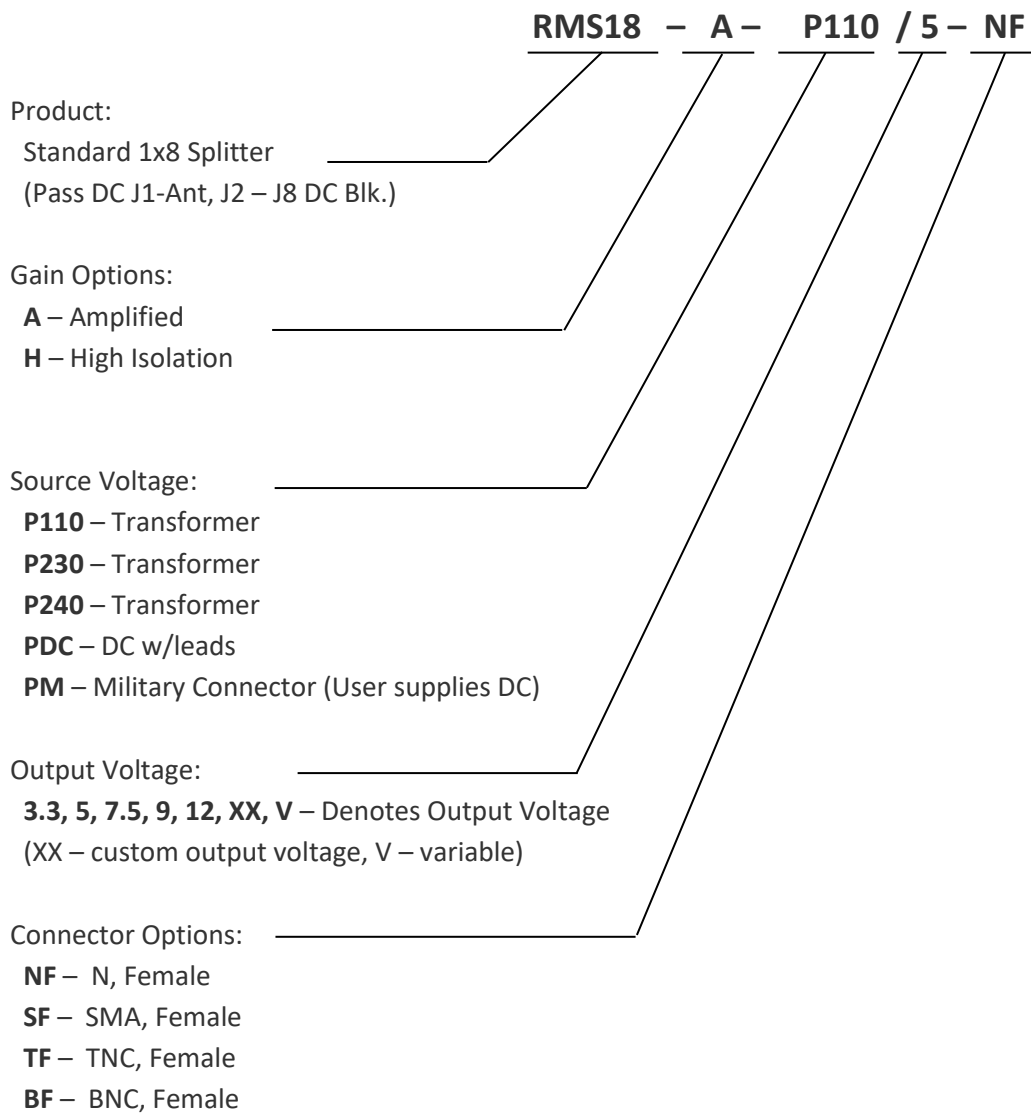
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Structure of Part Number:



For help in creating the part number to meet your exact needs, call us or contact us at vertrieb@aucon.de.