



100-1700 MHz Wideband 4-Way Divider

(Model: AMA-2122-4N)

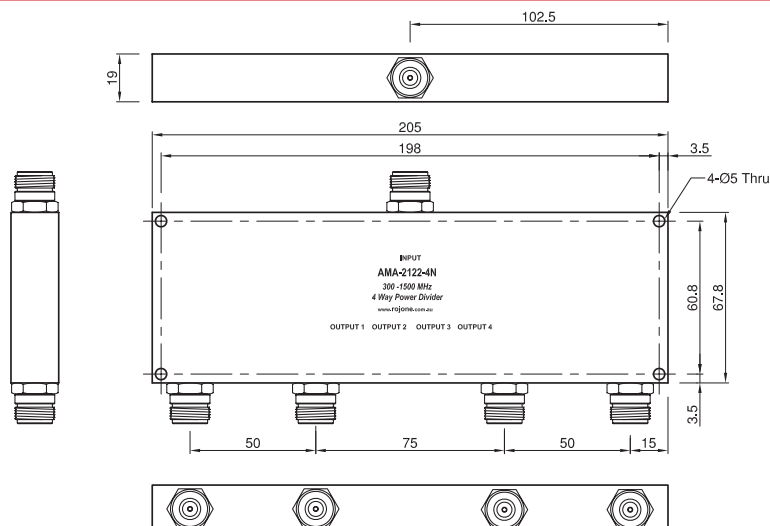
Description

AMA-2122-4N is a high performance, high reliability wide band 4 way divider with -20dB typical I/O return loss and minimum 20dB isolation between the output ports. AMA-2122-4N is designed for modern digital professional radio systems operating from 350-1400MHz. However it could be used as a wideband 4 way divider from 150 - 1700MHz with -14dB return loss.

AMA-2122-4N features low group delay, low digital data distortion and good input/output return loss, which is an ideal choice for professional high performance VHF, UHF, GPS L1/L2, Glonass, Galileo navigation/timing systems and Satellite communication applications.

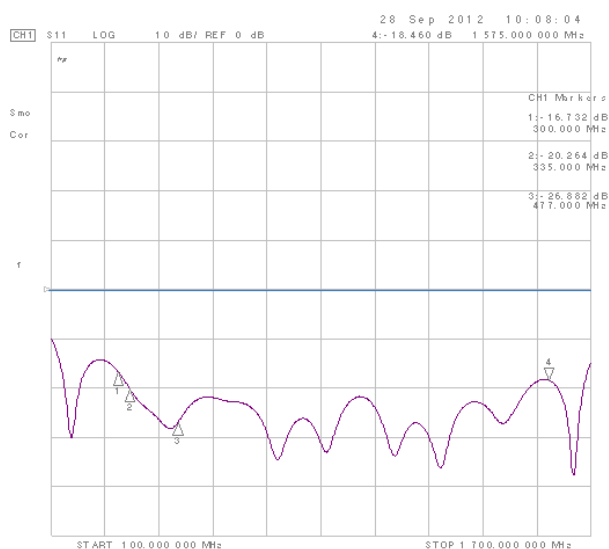
Specifications

OP Frequency Range	100 - 1700MHz @ Input RL <= -10dB 150 - 1700MHz @ Input RL <= -14dB 350 - 1400MHz @ Input RL = -20dB Typical
Through Loss (Typical)	6dB + 0.3dB @ 300MHz 6dB + 0.5dB @ 800MHz 6dB + 0.8dB @ 1700MHz
Output Return Loss	-20dB typical
Isolation Between Outputs	=> 20dB @ 350 - 1400MHz (see test results for more detail)
Amplitude Balance	< ± 0.2dB
Phase Balance	< ± 5°
Input RF Power	100W max @ RL <= -20dB 30W max @ RL = -10dB
Operating Temperature	-40° to +60°C
Humidity	100%
Connectors	N Female
Weight	585g
Size	205 x 67.8 x 19mm (plus connectors)

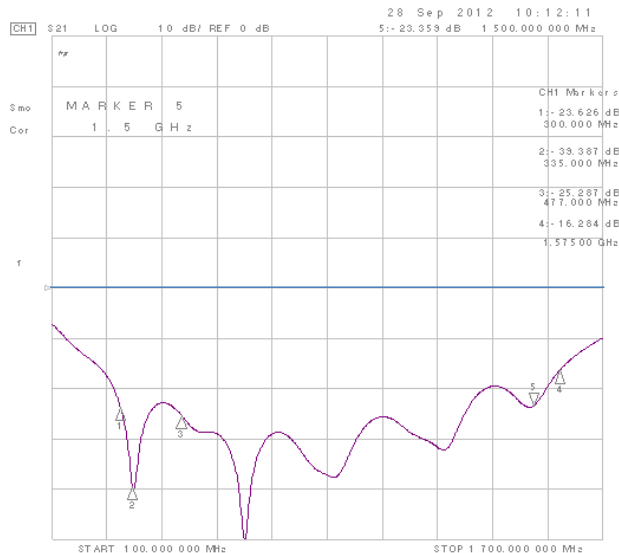




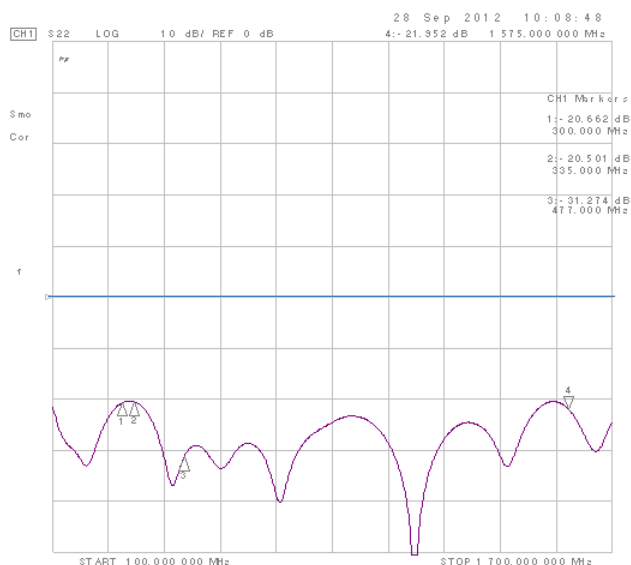
Test Results



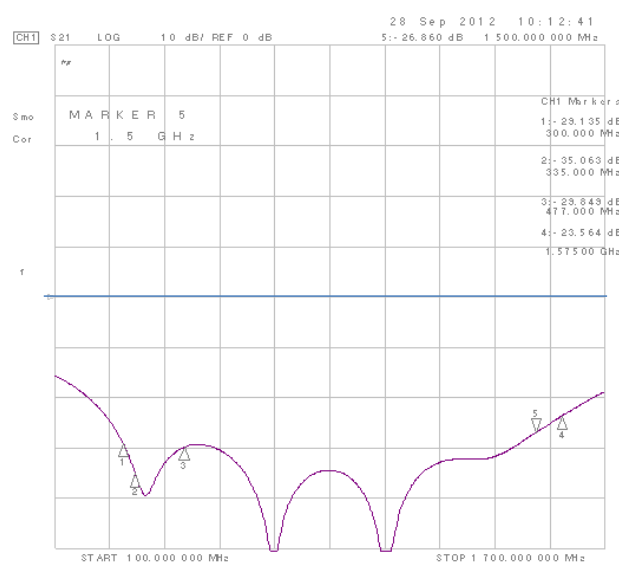
Typical Input Return Loss from 100-1700MHz



Typical Isolation between Output port 1-2 and output port 3-4



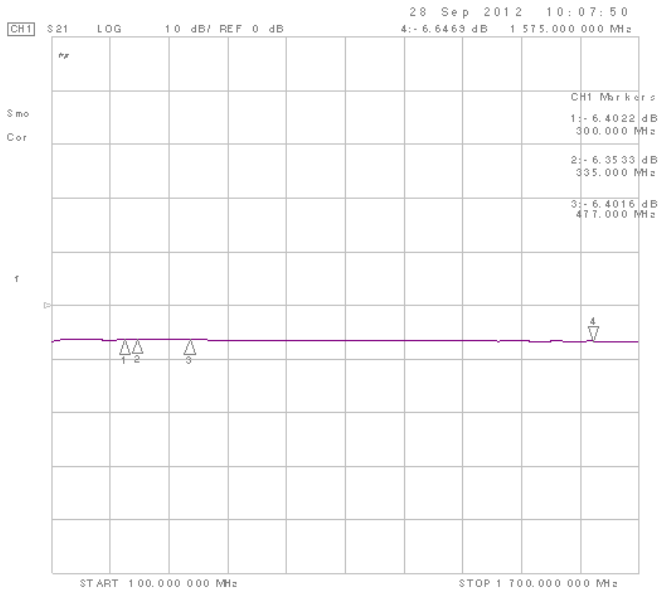
Typical Output Return Loss from 100-1700MHz



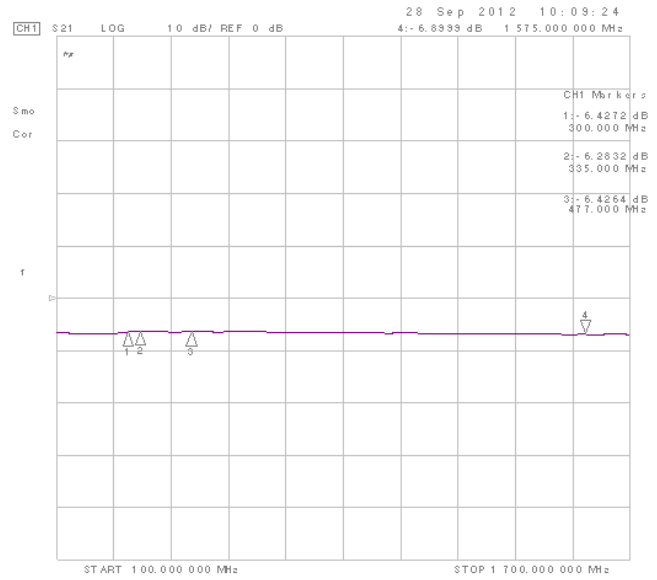
Typical Isolation between Output port 1-3, 1-4, 2-3 and output port 2-4



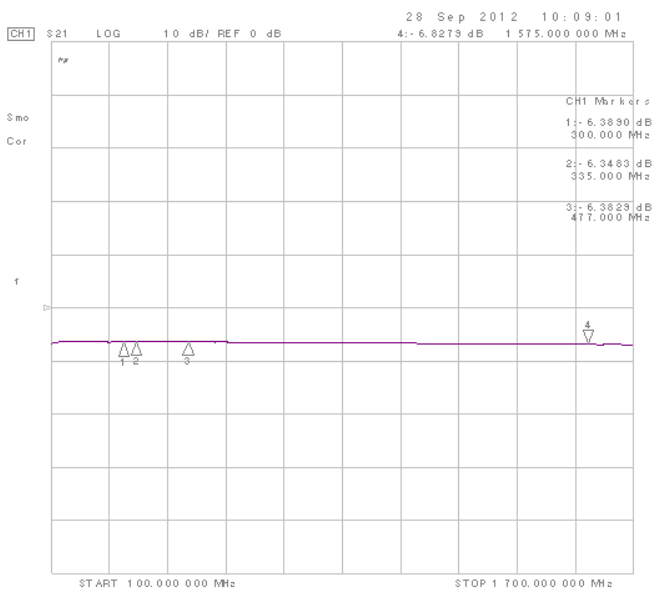
Test Results (Cont'd)



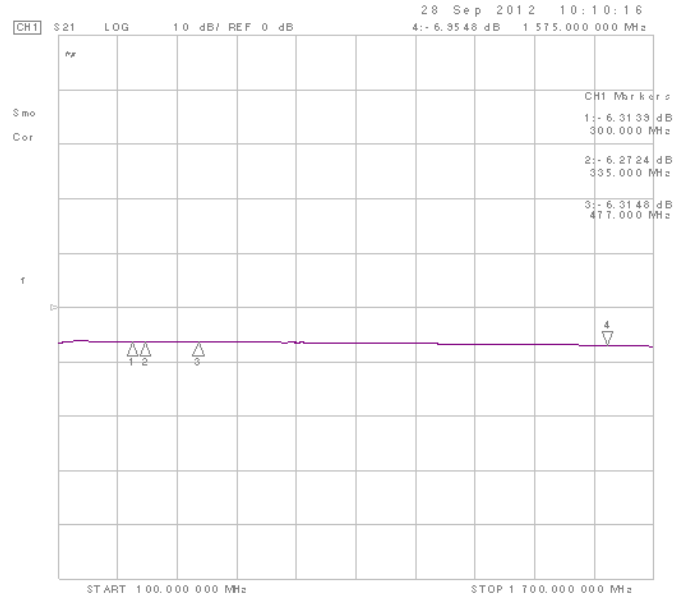
Typ Through Loss from Input to Output 1 from 100-1700MHz



Typ Through Loss from Input to Output 3 from 100-1700MHz



Typ Through Loss from Input to Output 2 from 100-1700MHz



Typ Through Loss from Input to Output 4 from 100-1700MHz