

Updated  
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www.rojone.com.au

## **Specification for AMA-2122-2N**

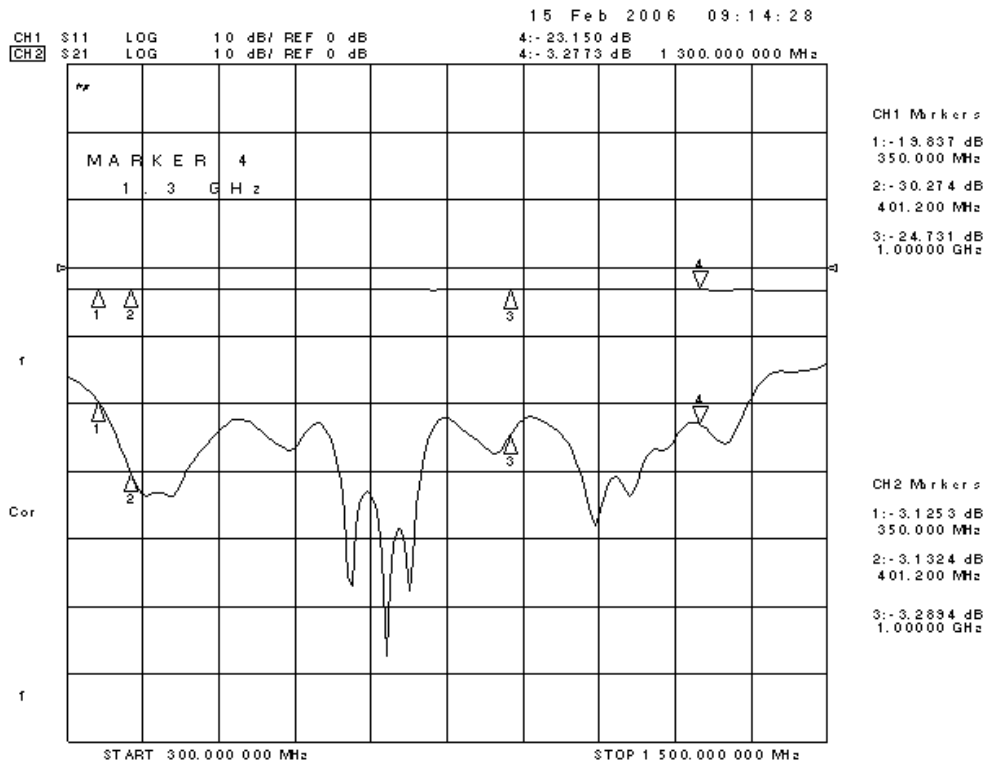
### **380 – 1000MHz 2 Way Divider**

High isolation High Precision

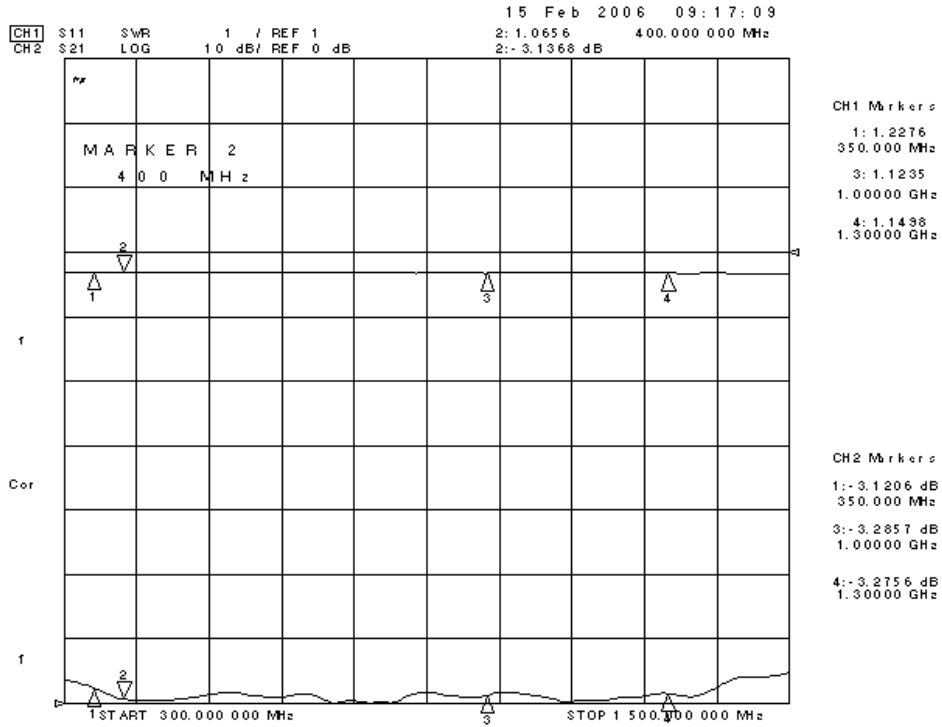
AMA-2122 series high performance dividers are designed for professional TV systems, Satellite TV systems and Satellite communication systems application. Which features super low IM, high isolation, super flat response, low group delay and well balanced outputs in phase and amplitude.

#### Design spec

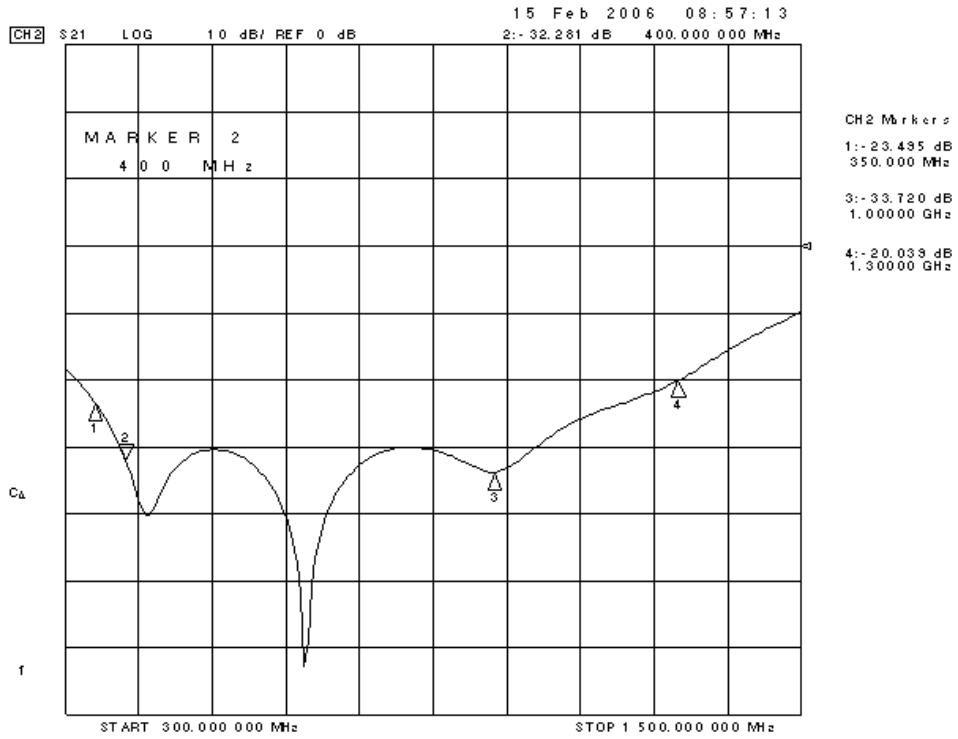
Frequency range	380 MHz to 1000MHz (useable 300 to 1500MHz)
Input RF power	10w max @ VSWR < 1.5:1 50w max @ VSWR < 1.2:1
Input Return Loss	20 dB Min
Output Return Loss	20 dB Min
Isolation	20dB Min (30dB Typ)
Insertion Loss	< 0.3dB
Amplitude Balance	< 0.1dB
Phase Balance	< 2 deg (0.5 to 1 deg Typ)
Group delay	< 2 nS
IM3	< -140dBc @ 40 dBm x 2
Op Humidity	100%
Op Temperature	-40 to + 75C
RF Connectors	N-F
Size	122 x 42 x 19mm



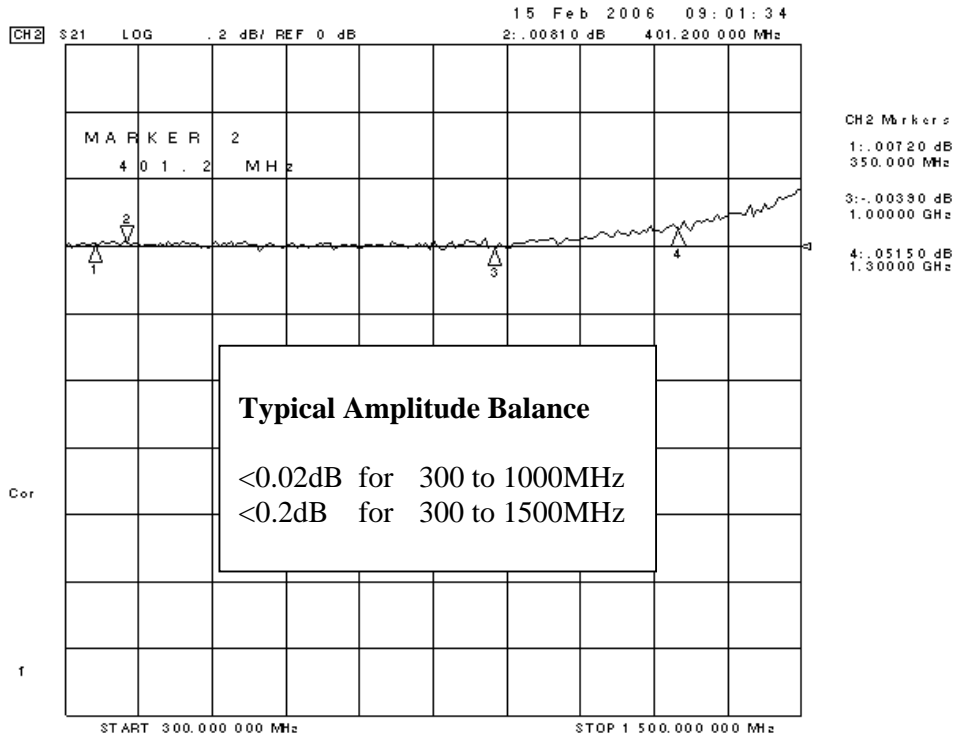
### Typical Through Loss and Input Return Loss of AMA-2122-2N



### Typical Through Loss and Input VSWR of AMA-2122-2N



**Typical Isolation of AMA-2122-2N**



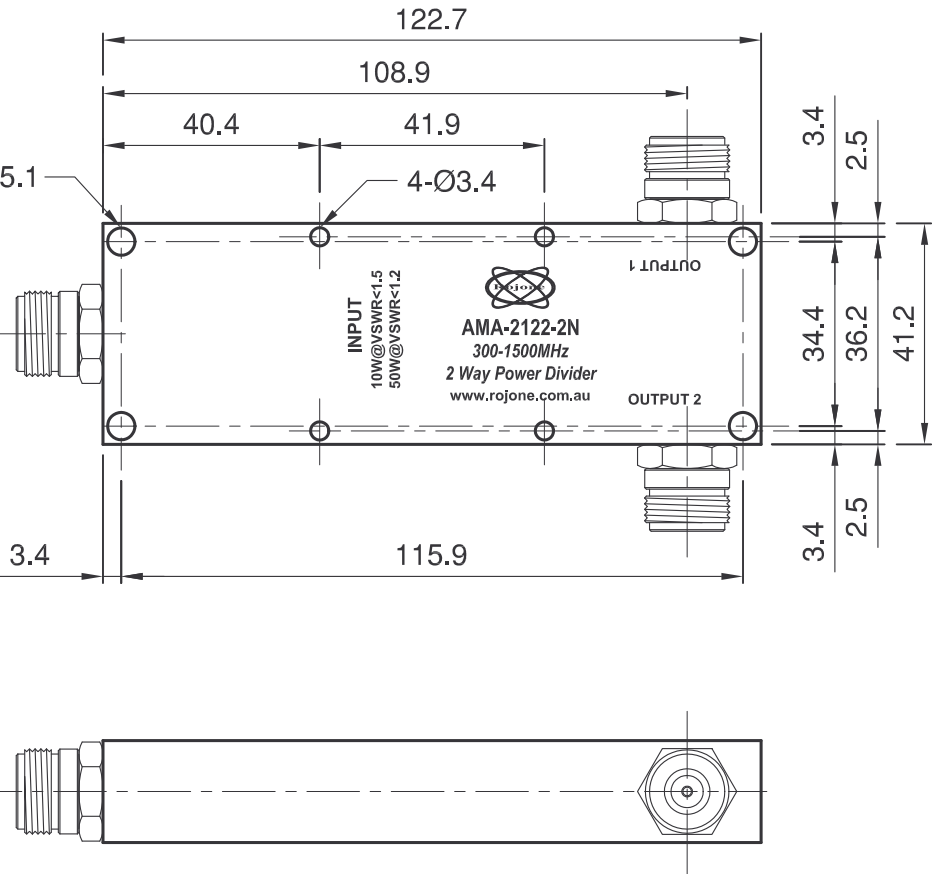
**Typical Amplitude Balance of AMA-2122-2N**

REVISIONS			
ISS	ZONE	DESCRIPTION/PER REQUEST/DATE	
B		UPDATED LABEL	

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DO NOT SCALE

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### SPEC for AMA-2122-2N

Frequency Range:	300-1500MHz
Input RF Power:	50W@VSWR<1.5 10W@VSWR<1.2
Input Return Loss:	20 dB Min
Output Return Loss:	20 dB Min
Isolation:	20 dB Min (30dB Typ)
Insertion Loss:	<0.3 dB
Amplitude Balance:	<0.1 dB
Phase Balance:	< 2 Deg
Op Humidity:	100 %
Op Temperature:	-40 to +75 °C
RF Connectors	N - F
Size:	123 x 42 x 19 plus Conn.

NOTES:

- FOR PRODUCTION PLEASE SEE 002002250070 2 WAY POWER DIVIDER ASSEMBLY DRAWING
- OPERATING TEMPERATURE OF DIVIDER IS DEFINED AS TEMPERATURE AT THERMAL INTERFACE. WHEN BEING USED AS A COMBINER, HIGH POWER DIVIDER MUST BE HEATSUNK TO THERMAL INTERFACE ACCORDING TO POWER OF SIGNALS BEING COMBINED
- ROJONE PART No. DESIGNATIONS AMA-2122-2N  
AMA-2122-2N-E  
(ENVIRONMENTAL VERSION)  
  
ENVIRONMENTAL VERSIONS IS SPECIFICALLY DESIGNED FOR OUTDOOR USE WHEN CONNECTORS ARE MATED THE SPLITTER OFFERS A IP66 WATER RESISTANCE RATING.
- DIVIDERS ARE DESIGNED FOR LOW INTERMODULATION OPERATION
- ALL CONNECTORS ARE FEMALE N-TYPE WITH 12 TO 15 inlbs (1.30Nm - 1.70Nm) MATING TORQUE.
- LOW POWER VERSIONS FINISHED IN POLYURETHANE AS2700 N42 STORM GREY. HIGH POWER VERSIONS FINISHED IN FLAT BLACK.

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	ROJONE PTY LTD ACN 002691241 81 AERO RD INGLEBURN 2565 SYDNEY, AUSTRALIA Ph: (612) 9829 1555 Fax: (612) 9605 8812 Web: www.rojone.com.au E-mail: sales@rojone.com.au	TITLE 2 WAY POWER DIVIDER AMA-2122-2N 400-1200MHz INTERFACE DRAWING	
	DRWG No: 002002250068		
MATERIAL ALUMINIUM &/OR BRASS HOUSING & COVER	DRAWN Y. GU CHECKED H. JIA APPROVED H. JIA	SCALE 1:1 SHEET 1 OF 1	FILENAME 002002250068ISSB.DWG

ALL SPECIFICATIONS SUBJECT TO CHANGE UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES (mm) TOLERANCE: LINEAR ±0.1 ANGULAR ±1° REMOVE ALL BURRS AND SHARP EDGES