



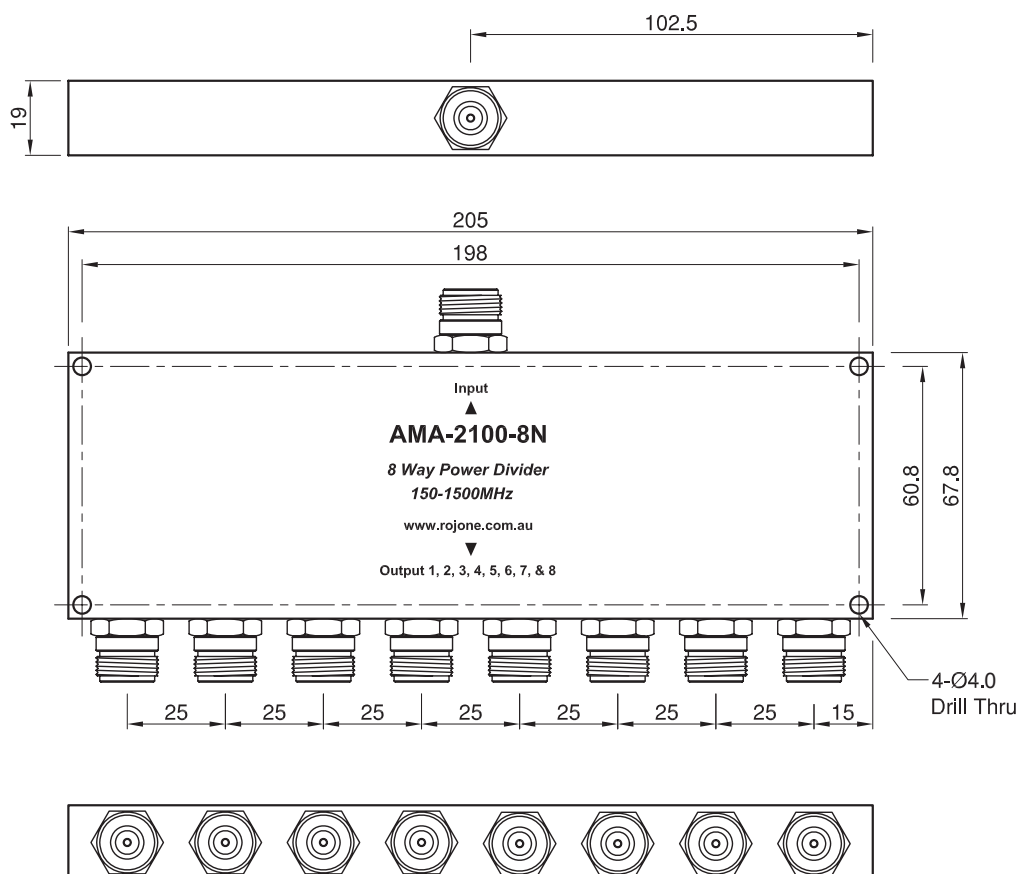
## 150-1500 MHz 8-Way Divider

(Model: AMA-2100-8N)

### Specifications

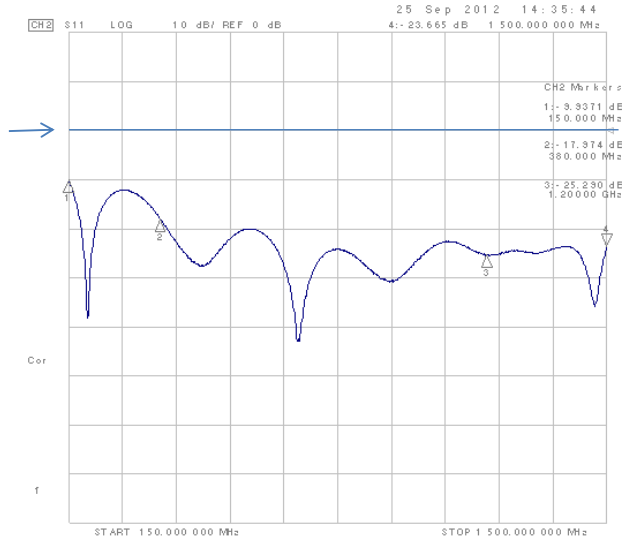
<b>Operating Frequency Range</b>	150 to 1500MHz
<b>Input Return Loss</b>	-20dB typical (400-1200MHz) < -10dB (150-1500MHz)
<b>Output Return Loss</b>	< -20dB (300-1200MHz) < -15dB (150-1500MHz)
<b>Through Loss</b>	9.3dB typical @ 380MHz 9.8dB typical @ 900MHz 10dB typical @ 1500MHz
<b>Phase Balance</b>	< $\pm 5^\circ$
<b>Amplitude Balance</b>	< $\pm 0.2$ dB
<b>Max Input RF Power</b>	50W
<b>Isolation</b>	> 20dB @ 500-1300 MHz*
<b>Impedance</b>	50 ohm
<b>RF Connectors</b>	N Female

\* Refer to Pages 2-3 for Test Reports





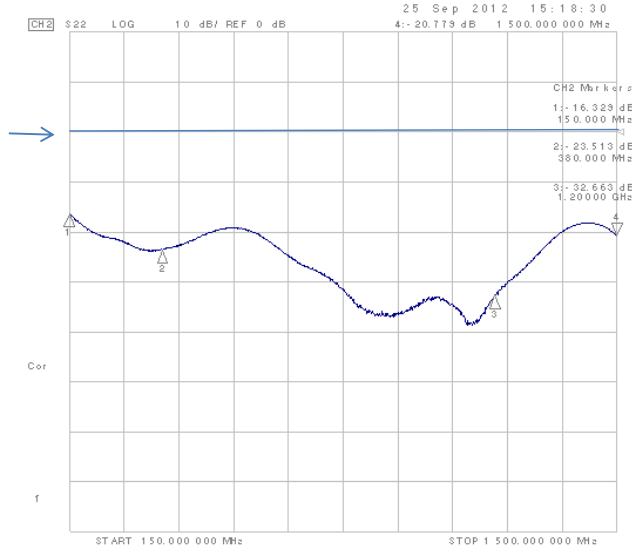
## Test Results



### Input Return Loss

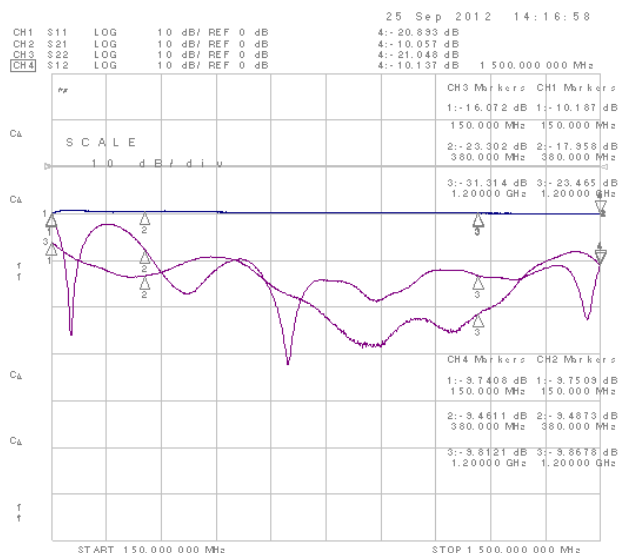
S11 < -10dB @ 150 – 1500MHz

S11 < -20dB @ 400-1500MHz



### Output Return Loss

S22 < -18dB (typical)  
@ 150 – 1500MHz



### Typical Performance of AMA-2100-8N

Input Return Loss s11 : <-10dB @ 150 – 1500MHz

Output return Loss s22: <-18dB @ 150 – 1500MHz

Divider forward Through Loss s21 = Divider Reverse Through Loss s12

9.1dB typ @ 200MHz

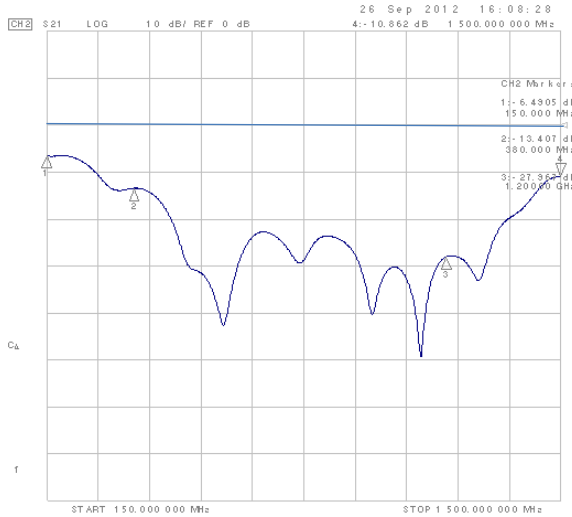
9.3dB typ @ 380MHz

9.8dB typ @ 900MHz

10dB typ @ 1500MHz



## Test Results (Cont'd)



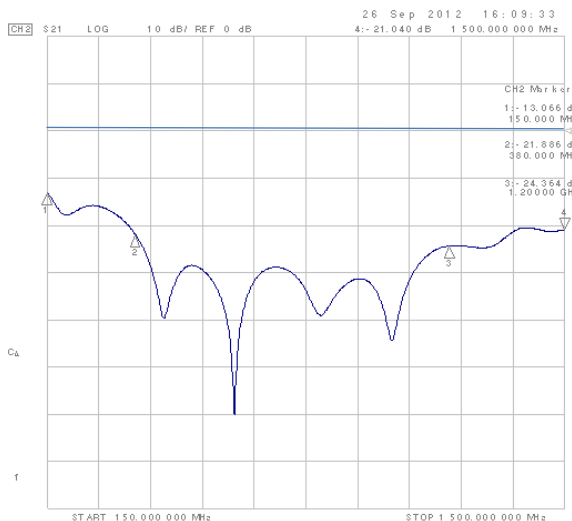
### Isolation

When the input return loss is <-20dB

The Typical Isolation between

Output port:

1-2, 3-4, 5-6, 7-8



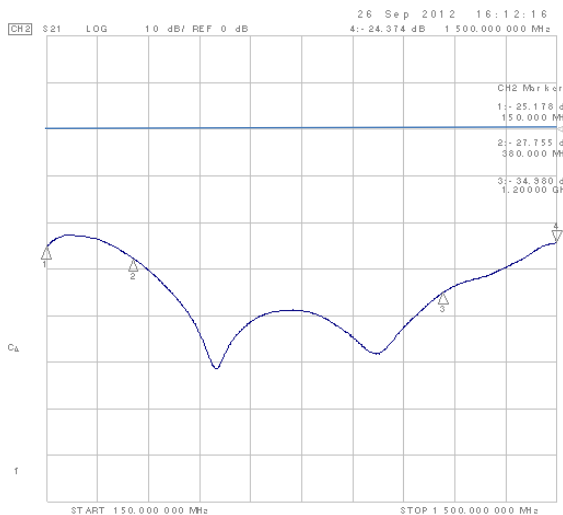
### Isolation

When the input return loss is <-20dB

The Typical isolation between

Output port:

1-3, 2-4, 5-7, 6-8



### Isolation

When the input return loss is <-20dB

The Typical isolation between

Output port:

1-5, 1-6, 1-7, 1-8

2-5, 2-6, 2-7, 2-8

3-5, 3-6, 3-7, 3-8

4-5, 4-6, 4-7, 4-8