

August 2007

AMA-2860-2N LOW IM 800-6000 MHz 2 Way Divider

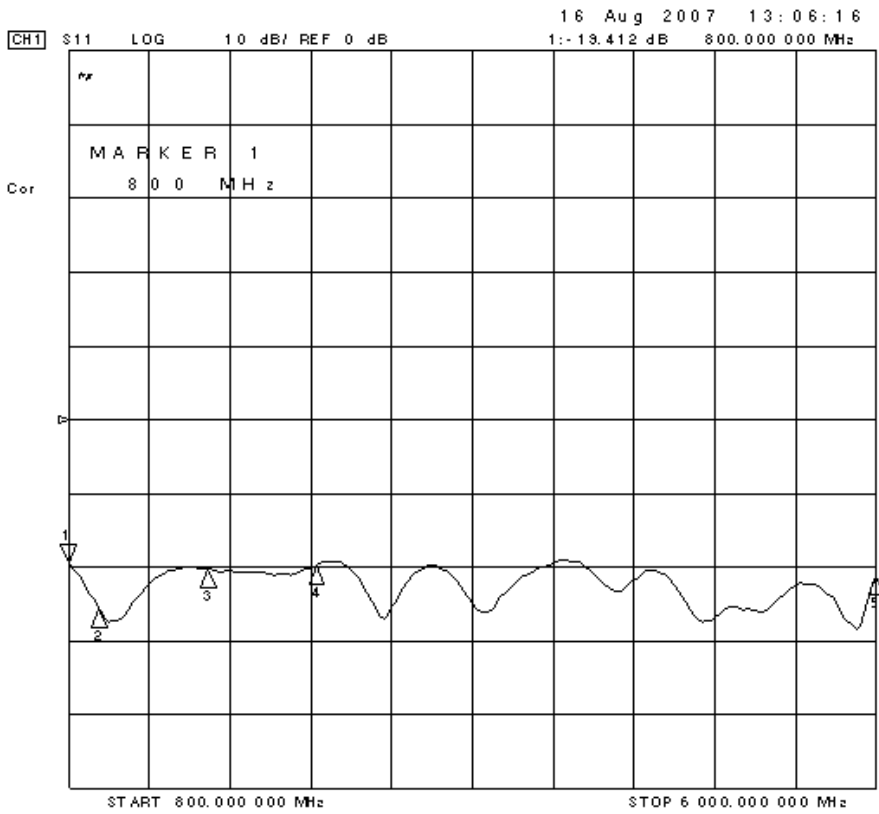
AMA-2860-2N is a high performance 2 way RF divider, designed for multi-channel operation, from 800 to 6000MHz with IM less than -140dBc @ $43\text{dBm} \times 2$.

For the typical In-building systems, the IM level of this divider should be below -150dBc .

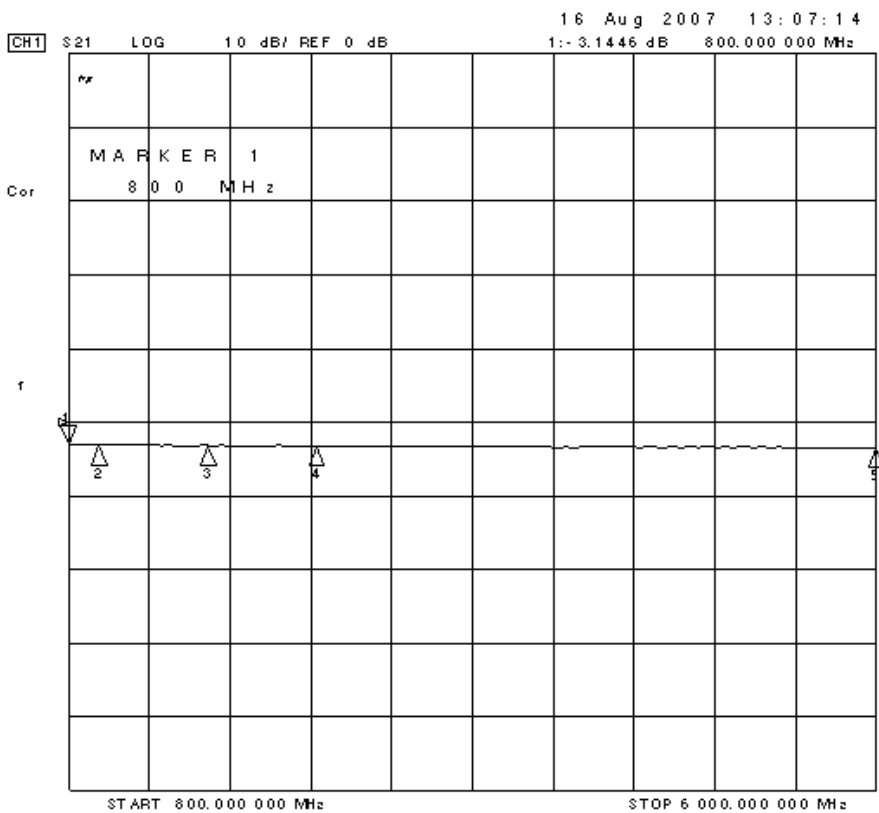
The high isolation between each output port will reduce the interference to other systems in the adjacent location.

The flat amplitude-phase response and the minimal group delay of this device will ensure the highest transmission quality for digital RF signals.

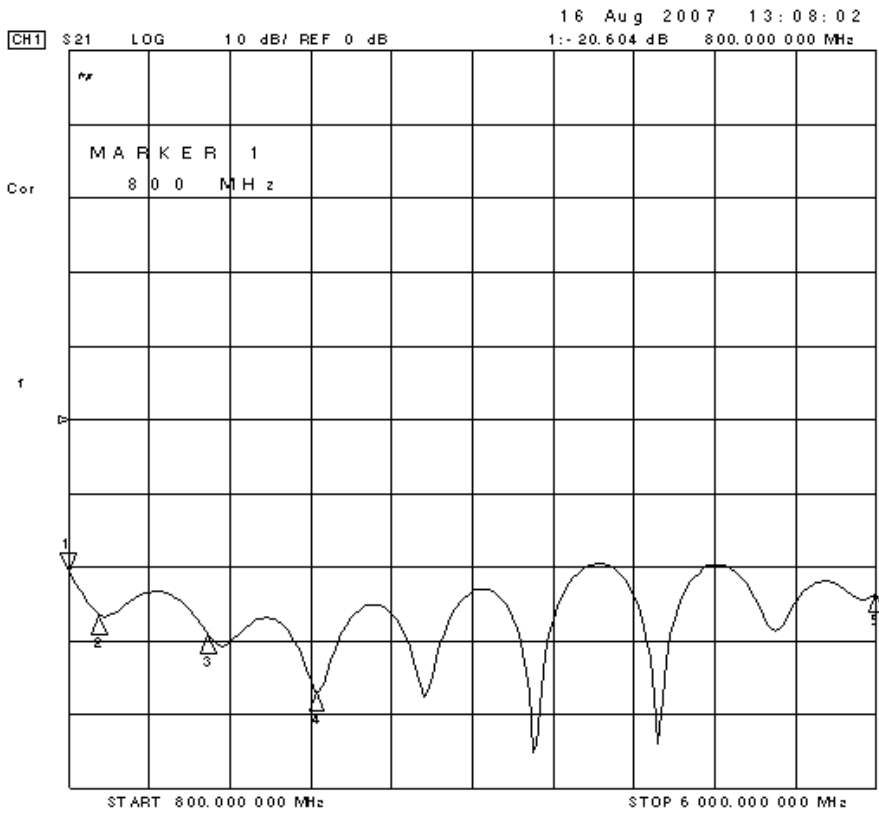
Frequency range	800 MHz to 6000MHz
Input RF power	10w max @ VSWR < 1.5:1 50w max @ VSWR < 1.2:1
Input Return Loss	-20 dB typ for $f < 3\text{GHz}$ <-17 dB for $3\text{GHz} < f < 6\text{GHz}$
Output Return Loss	20 dB typ
Isolation	20dB typ
Insertion Loss	< 0.3dB for $800\text{MHz} < f < 3000\text{MHz}$ < 0.6dB for $3000\text{MHz} < f < 6000\text{MHz}$
Amplitude Balance	< +/- 0.2dB
Phase Balance	< +/- 5 deg
Group delay	< 2 nS
IM3	< -140dBc @ $43\text{dBm} \times 2$
Op Humidity	100%
Op Temperature	-40 to + 75C
RF Connectors	N-F
Size	133 x 32 x 19mm



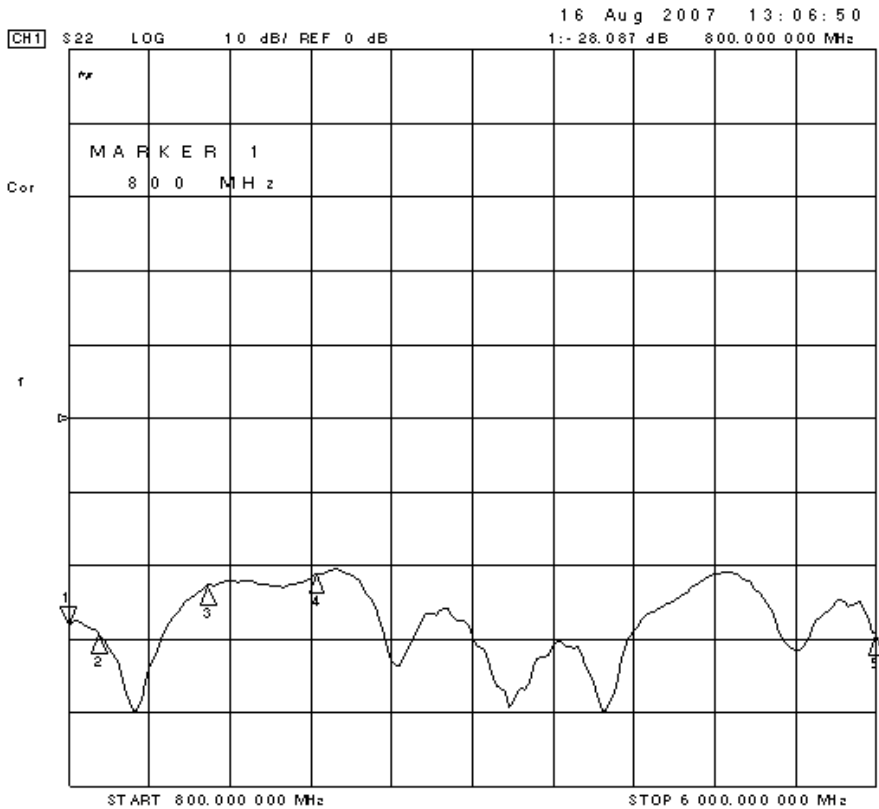
Input Return Loss of AMA-2860-2N



Through Loss of AMA-2860-2N



Output Isolation of AMA-2860-2N



Output Return Loss of AMA-2860-2N