



DESCRIPTION

AMCOM Communications' AM000100CP-20 is a broadband Directional coupler. It has 2.5dB insertion loss and 21 dB coupling over 0.002 to 10GHz band. The AM000100CP-20 is packaged in an Aluminum housing with SMA connectors.



FEATURES

- Broadband from DC to 10GHz
- Power handling is 0.5W
- Typical 21dB coupling.
- Input & output matched to 50 Ohms

APPLICATIONS

- Instrumentation
- Lab Measurements
- Device characterization

TYPICAL PERFORMANCE *

Parameters	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Frequency (GHz)	0.002 – 3.0			3.0 – 7.0			7.0 - 10.0		
Insertion Loss (dB)	-	1.9	2.3	-	2.5	3.1	-	3.5	4.5
Main Ports R. Loss (dB)	17	20	-	10	18	-	7	13	-
Coupling (dB)	20	21	22	20	21	22	19	20.5	22
Flatness (dB)	-	±0.2	±0.4	-	±0.4	±0.8	-	±0.9	±1.5
Coupled port R. Loss (dB)	20	25	-	12	20	-	10	14	-
Directivity (dB)	11	13	-	10	13	-	9	12	

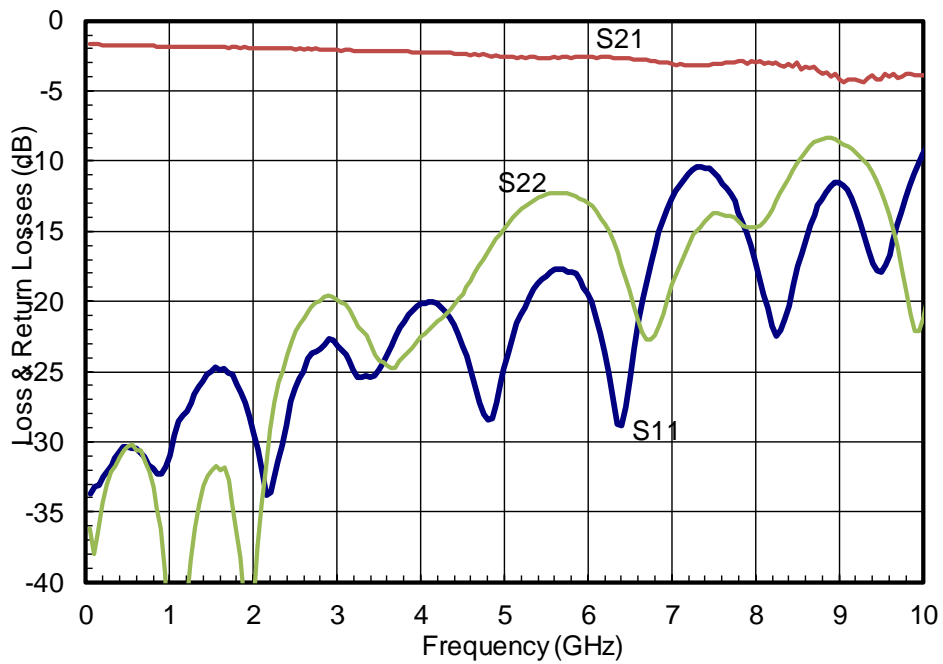
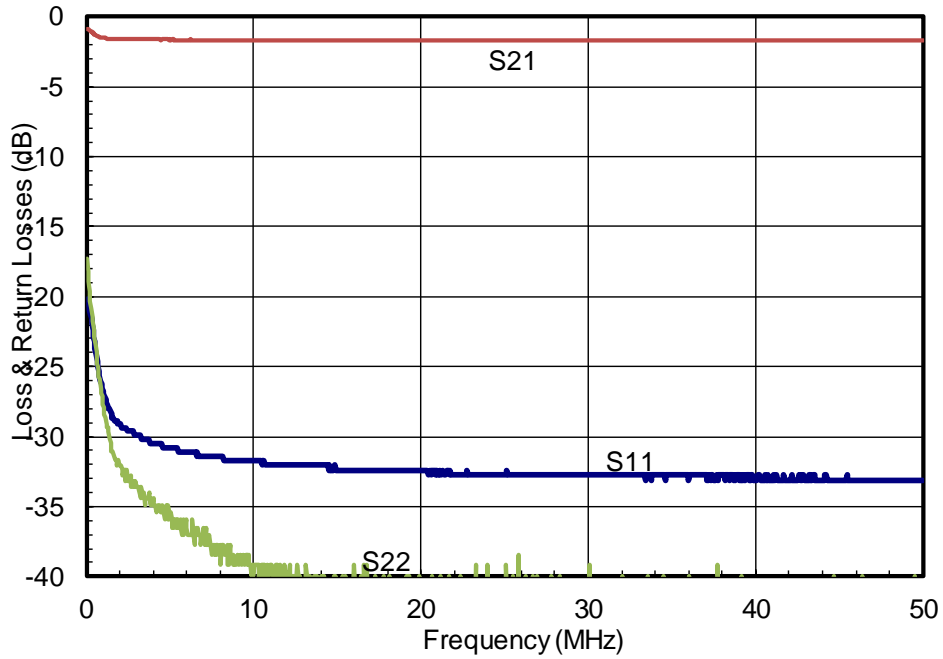
* Specifications subject to change without notice

ABSOLUTE MAXIMUM RATING

Parameters	Rating
Storage Temperature	-55°C to 100°C
Operating Temperature	-40°C to 85°C
Main Ports RF Power (CW)	0.5W
Coupled Port RF Power (CW)	0.25W

SMALL SIGNAL DATA*

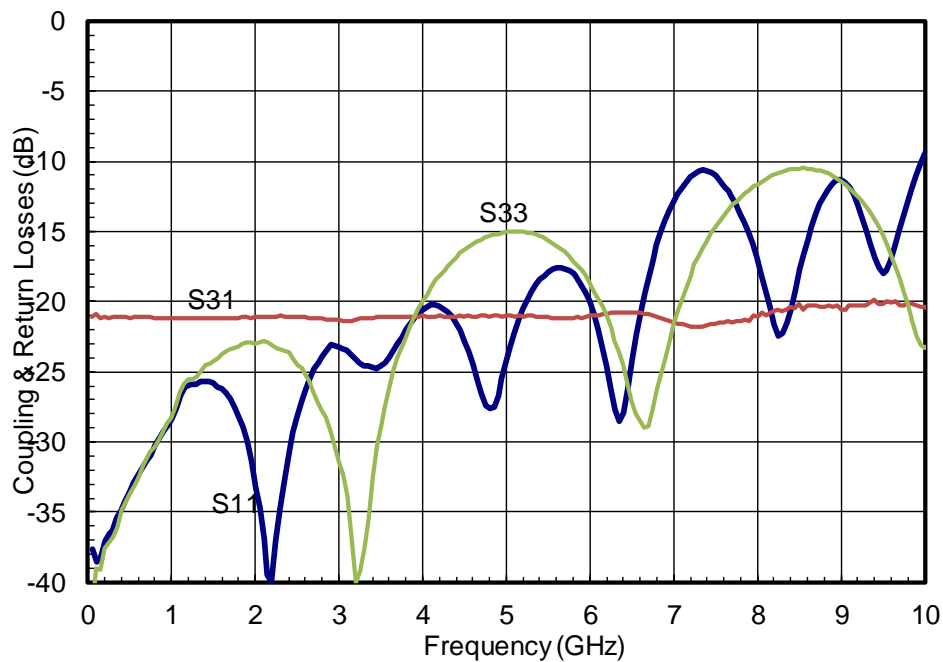
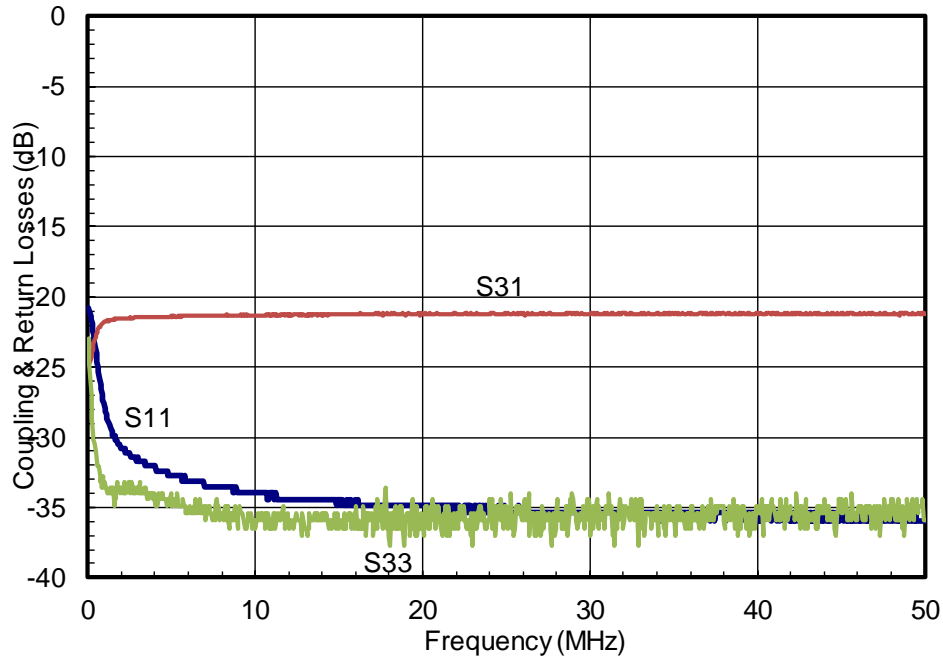
1- Main Ports S-Parameters (S11, S21, S22)



* Specifications subject to change without notice

SMALL SIGNAL DATA* (cont.)

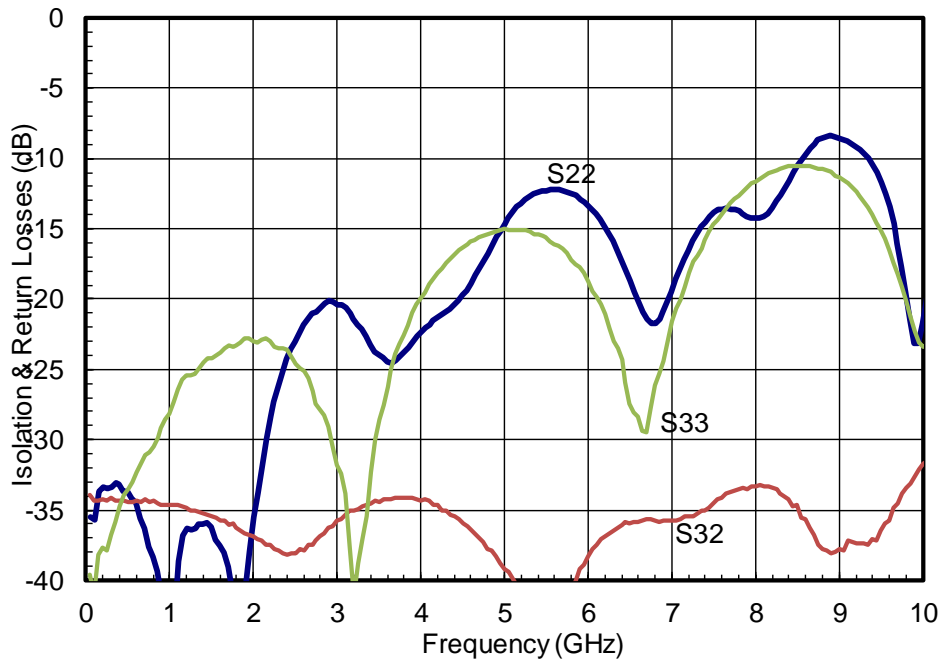
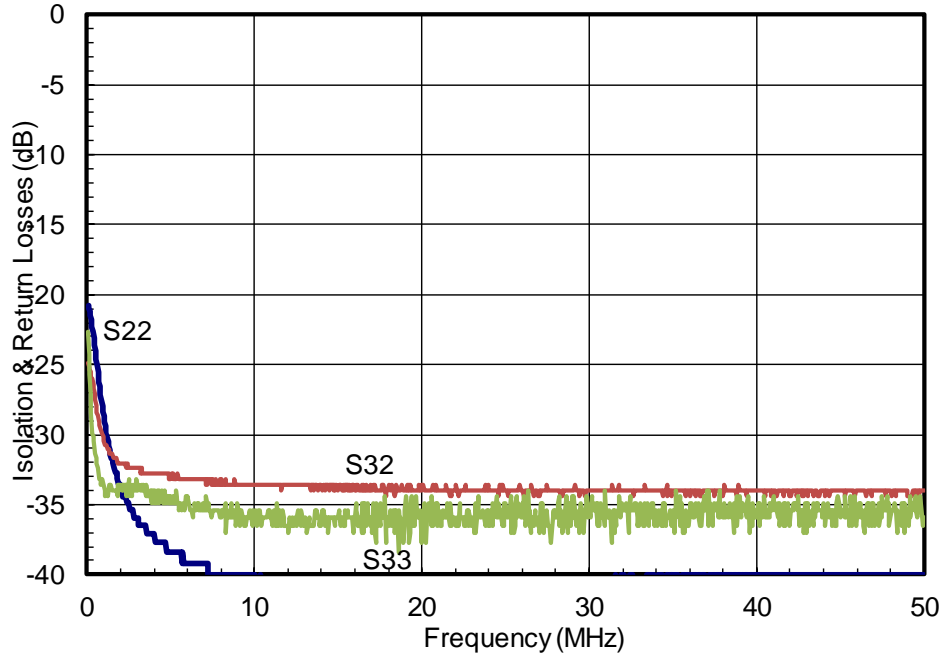
2- Input Port to Coupled Port S-Parameters (S11, S31, S33)



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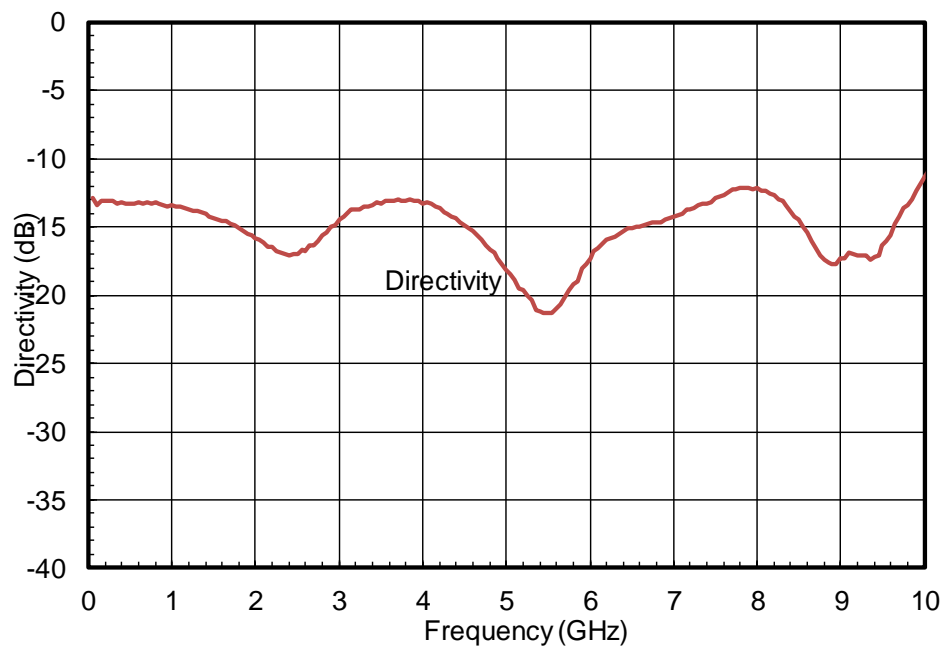
SMALL SIGNAL DATA* (cont.)

3- Port 2 to Coupled Port S-Parameters (S22, S32, S33)



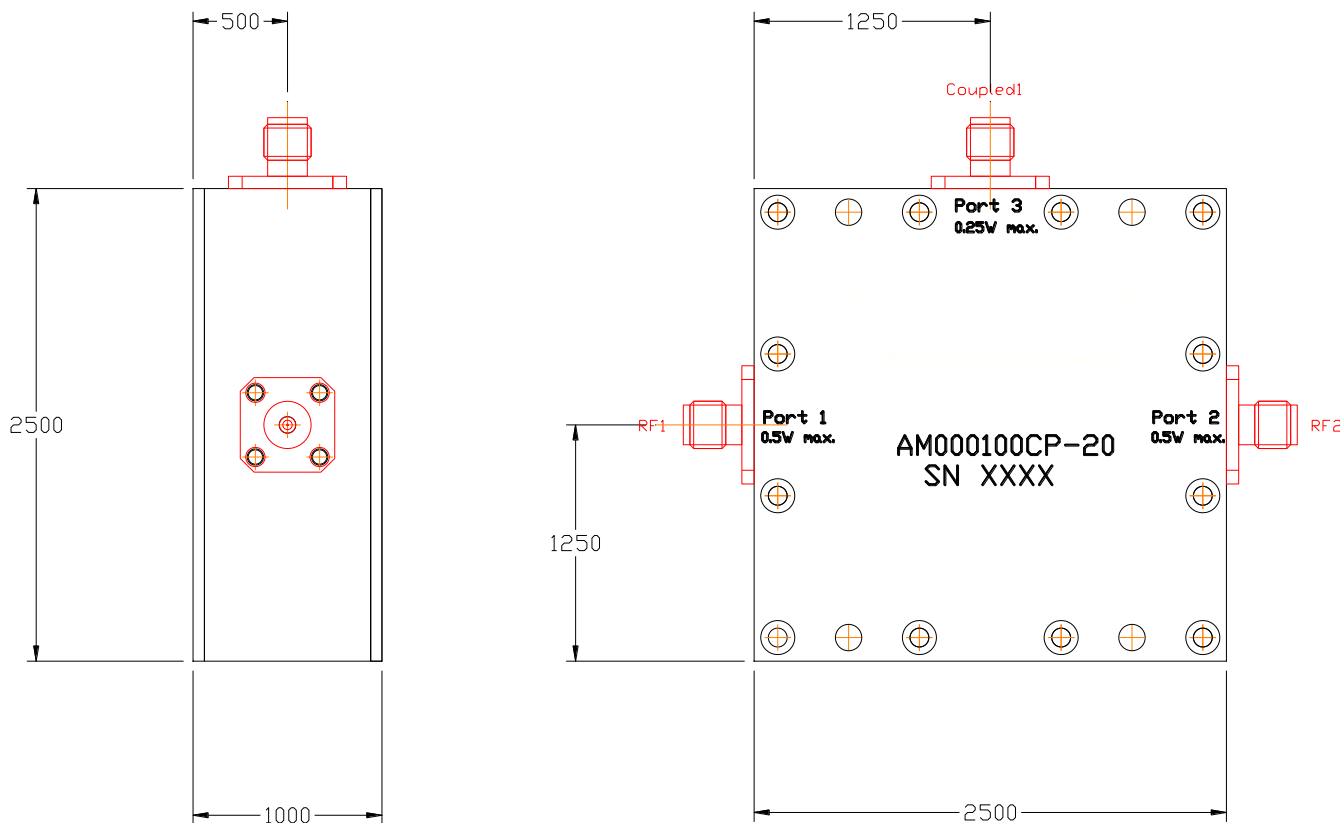
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DIRECTIVITY*



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PACKAGE OUTLINE*



*Dimensions are in mils