

## DESCRIPTION

AMCOM Communications' AM000100DP-20 is a broadband dual-directional coupler. It has 3 to 5dB insertion loss and 21 dB coupling over 0.002 to 10GHz band. The AM000100DP-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)	-	3.0	3.5	-	3.7	4.5	-	5.0	7.5
Main Ports R. Loss (dB)	17	20	-	10	20	-	6	12	-
Coupling (dB)	20	21	22	20.5	21.5	22.5	21	22	23
Flatness (dB)	-	±0.15	±0.3	-	±0.3	±0.6	-	±0.5	±1.0
Coupled port R. Loss (dB)	20	25	-	15	20	-	10	15	-
Directivity (dB)	11	15	-	11	15	-	12	17	-

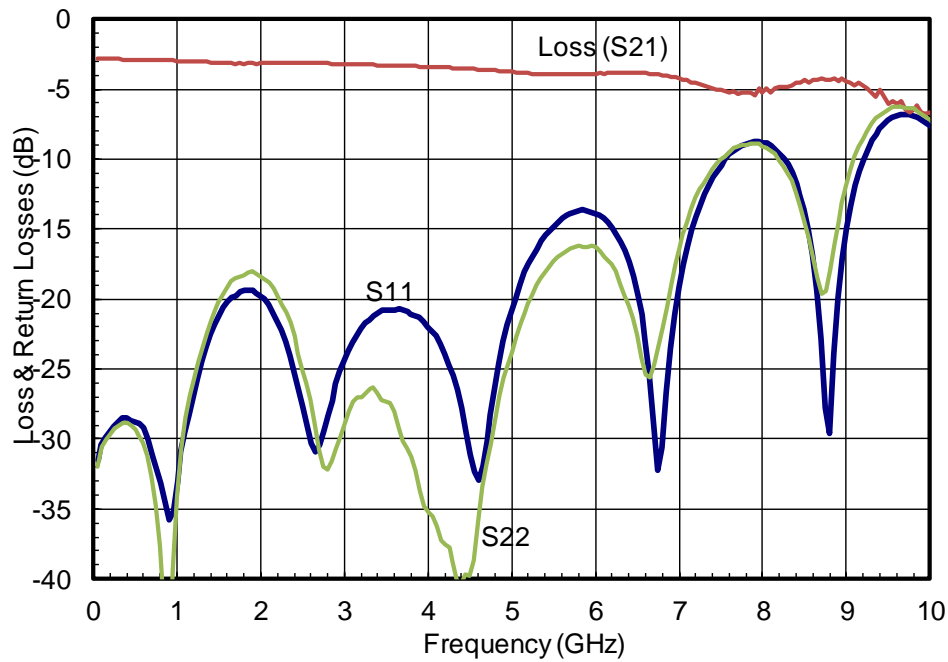
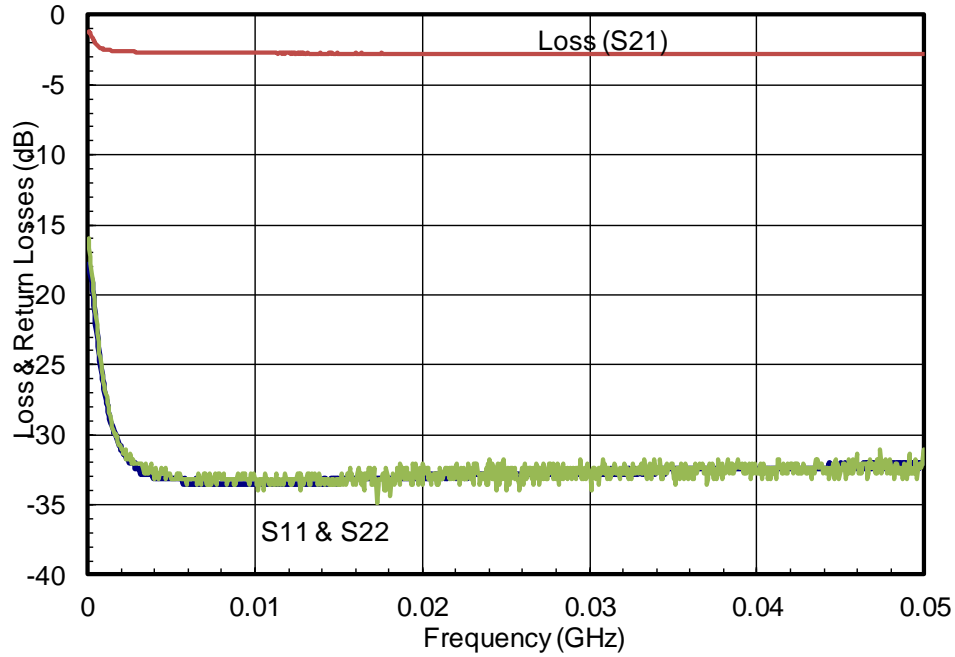
\* Specifications subject to change without notice

**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\*

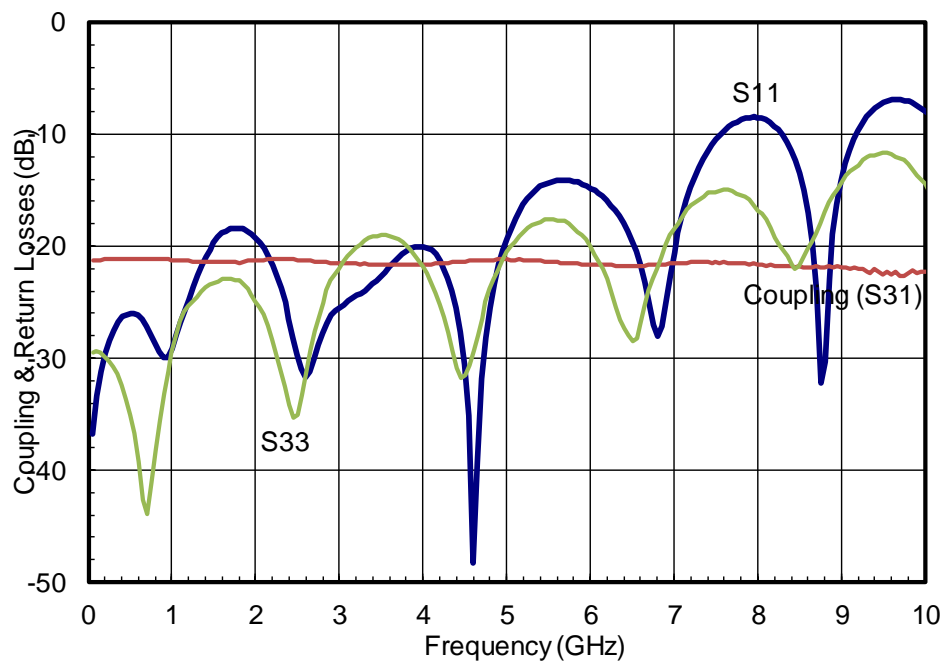
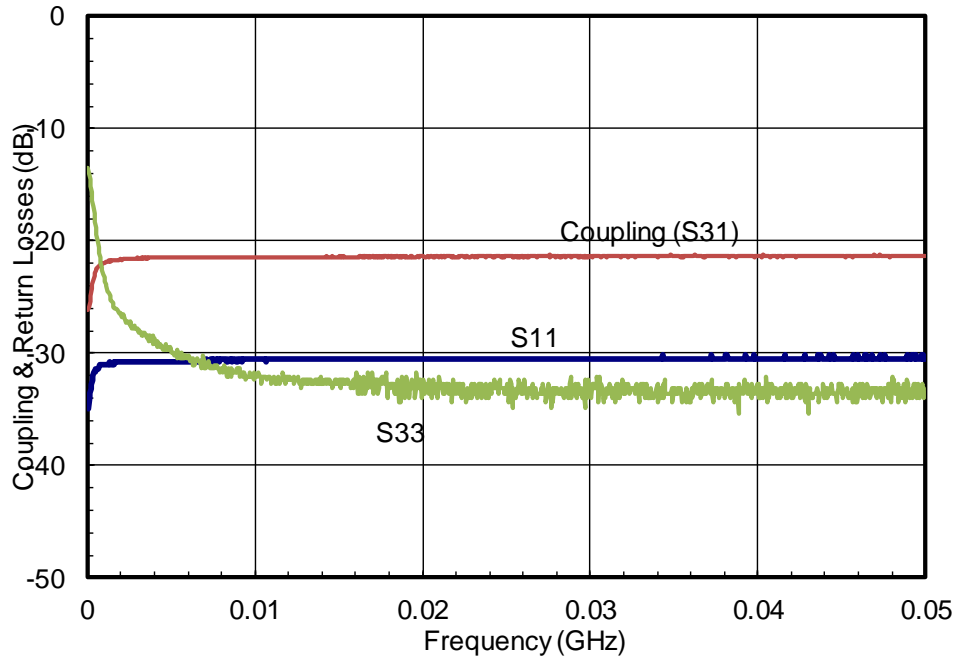
1- Main Ports S-Parameters (S11, S21, S22)



\* Specifications subject to change without notice

SMALL SIGNAL DATA\* (cont.)

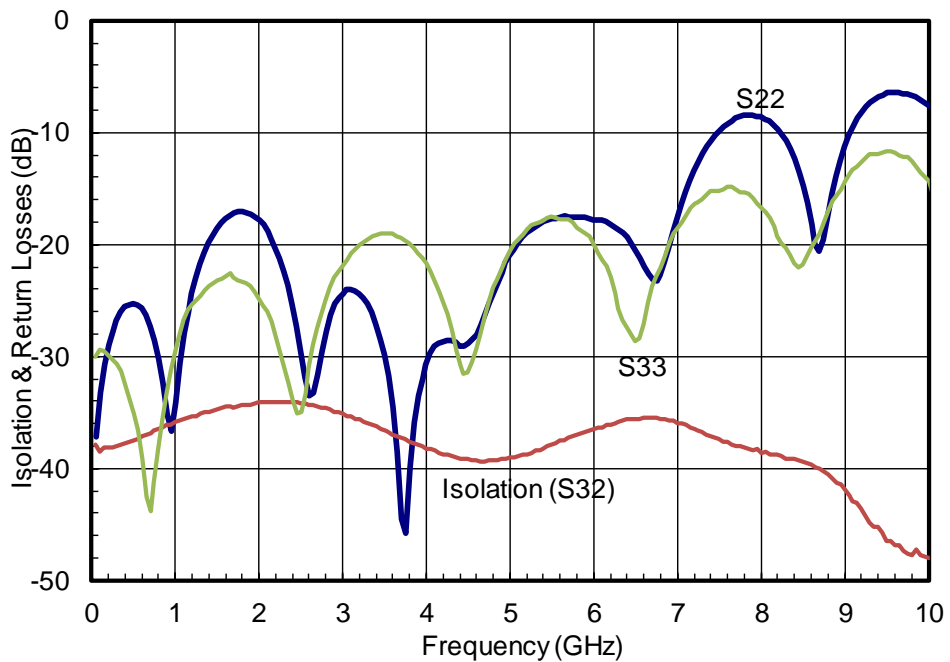
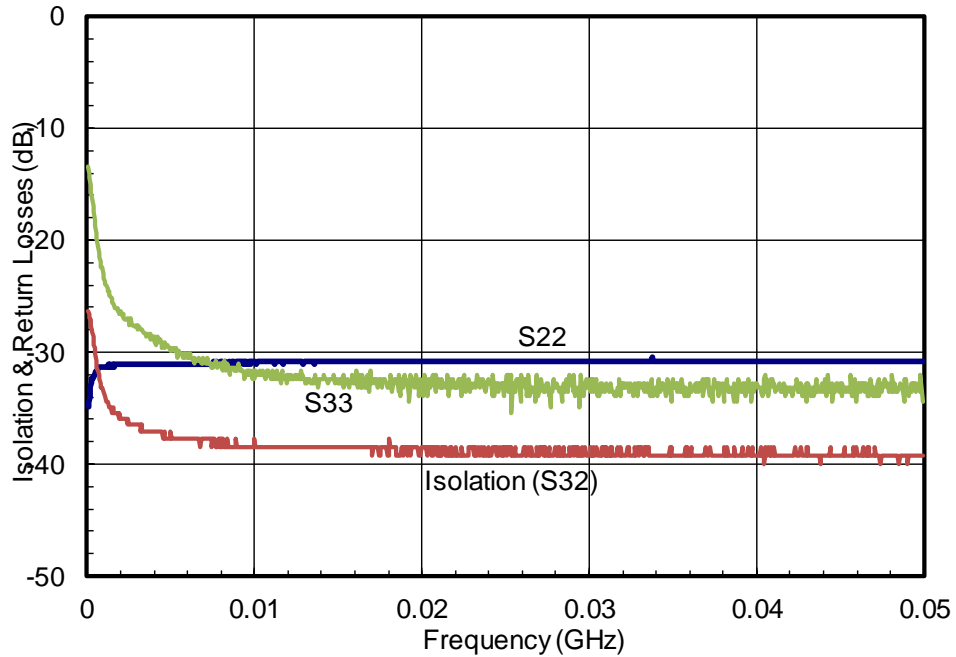
2- Port 1 to Port 3 S-Parameters (S11, S31, S33) or Port 2 to Port 4 (S22, S42, S44)



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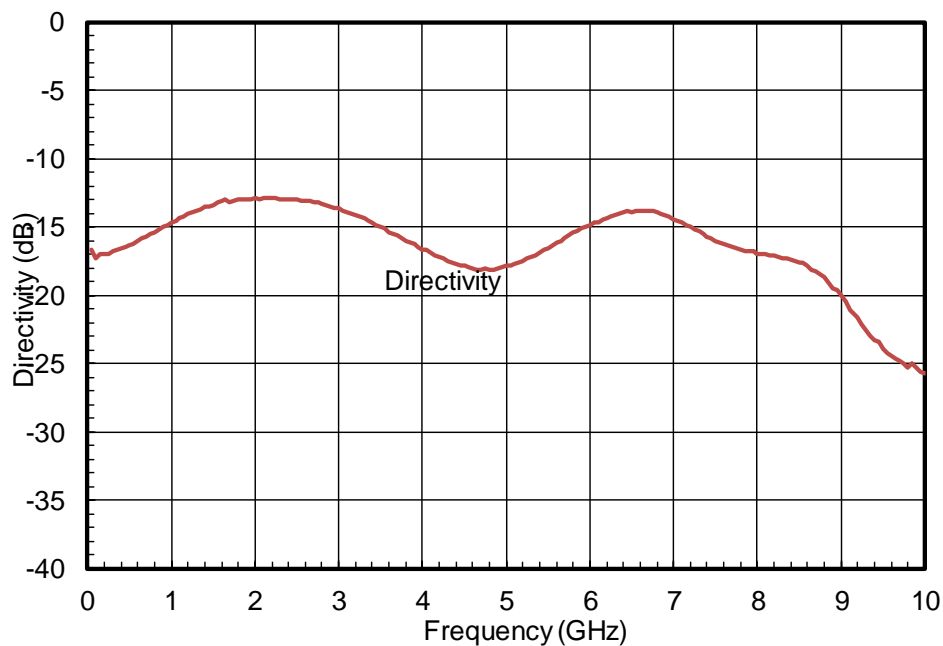
SMALL SIGNAL DATA\* (cont.)

3- Port 2 to Port 3 S-Parameters (S22, S32, S33) or Port 1 to Port 4 (S11, S41, S44)



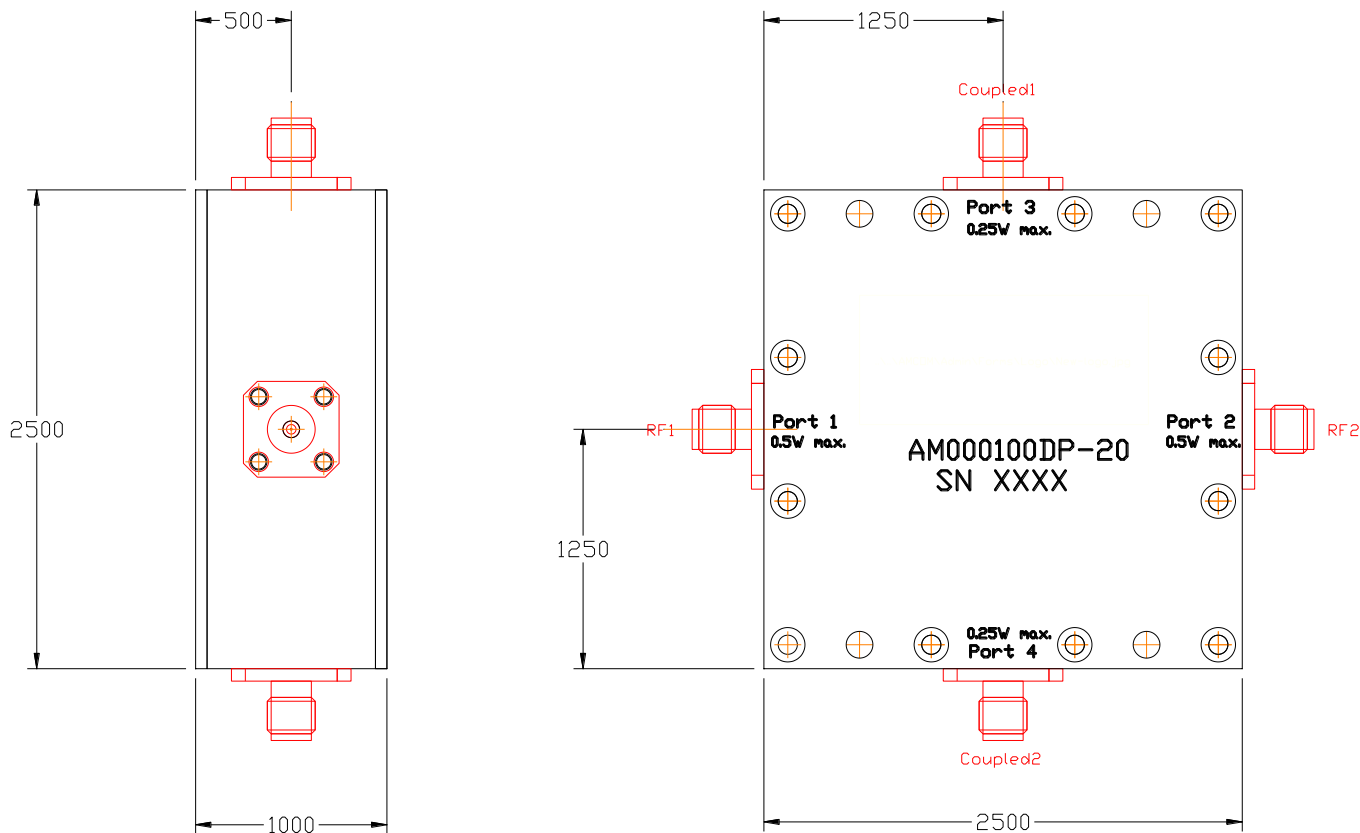
\* Specifications subject to change without notice

DIRECTIVITY\*



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PACKAGE OUTLINE\*



\*Dimensions are in mils