

# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SDC360440-20

**WIDE BANDWIDTH**

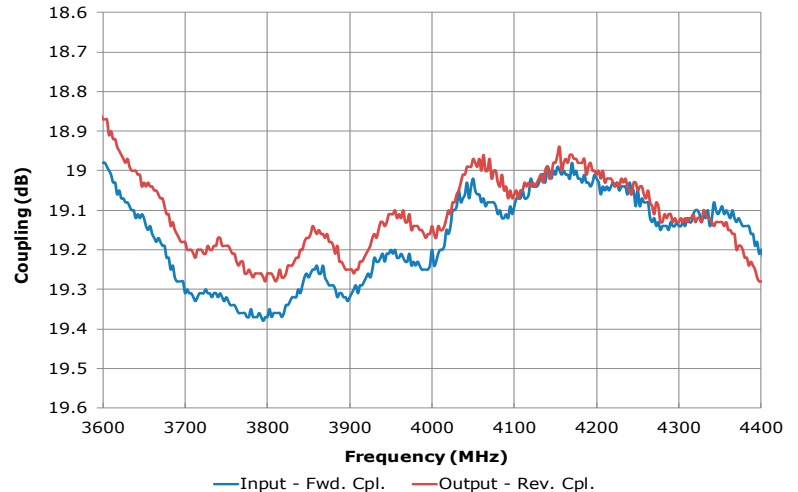
**3.6 - 4.4 GHz**

**FEATURES:**

- ▶ Power Rating 10 Watts
- ▶ Low Insertion Loss
- ▶ Good Coupling Flatness

**APPLICATION:**

- ▶ Signal Monitoring and Detection



**SPECIFICATIONS**

Frequency	3.6 - 4.4 GHz	
Coupling	19±0.5 dB (Nom.)	
Coupling Flatness (dB)	Typ.	Max.
	±0.25	±0.60
Insertion Loss <sup>1</sup>	Typ.	Max.
	0.8	1.2
Directivity (dB) <sup>2</sup>	Typ.	Min.
	16	10
Input Power Rating	10 Watt (CW)	
Impedance	50 Ohms (Nom.)	
VSWR	Input/Output	1.35:1 (Typ.)
	Coupled	1.35:1 (Typ.)
Operating Temperature Range	-40 to +85 °C	
Storage Temperature Range	-55 to +100 °C	
<sup>1</sup> Excluding coupling loss. <sup>2</sup> Directivity is the isolation value minus the coupling value.		

Package #	400
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RECOMMENDED PCB LAYOUT

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

PORT CONFIGURATION				
Input	Output	FWD. Coupled	REV. Coupled	Gnd.
4	8	5	7	All Others

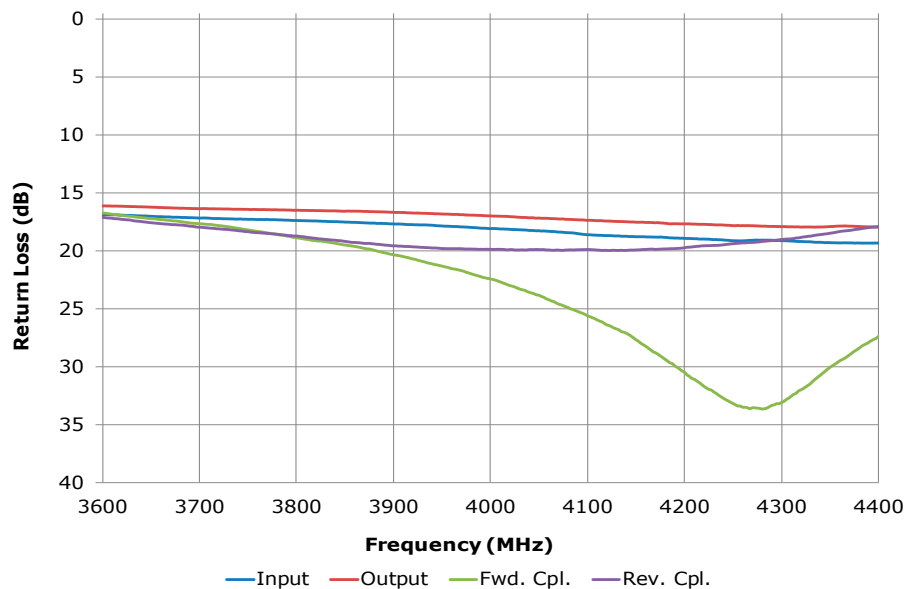
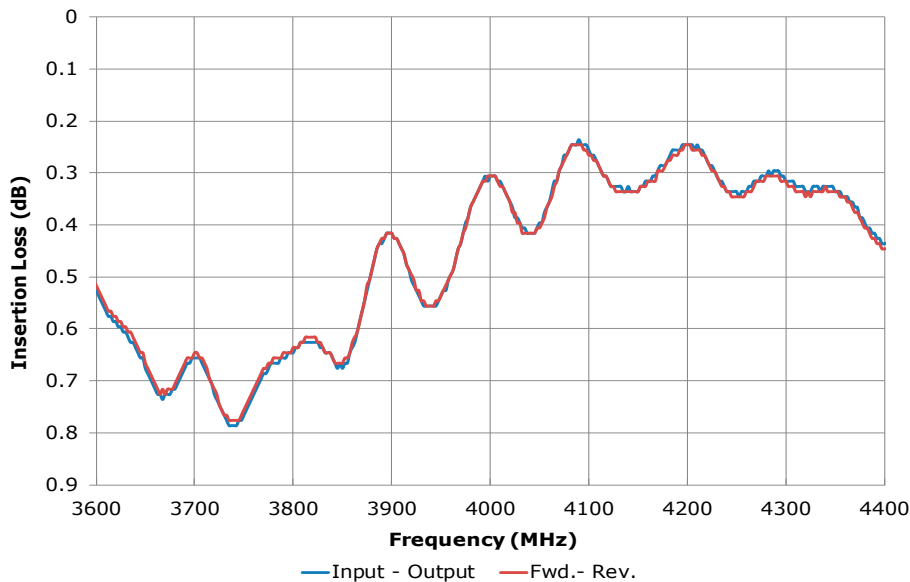
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PERFORMANCE PLOTS

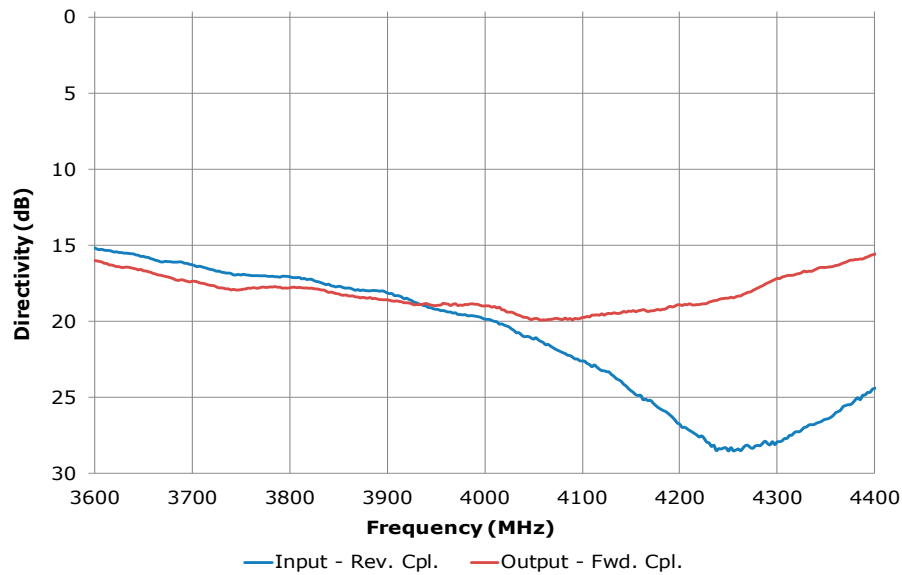


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