

Directional Couplers



39 mm Compact Directional Coupler, SMA probe

PRODUCT FEATURES

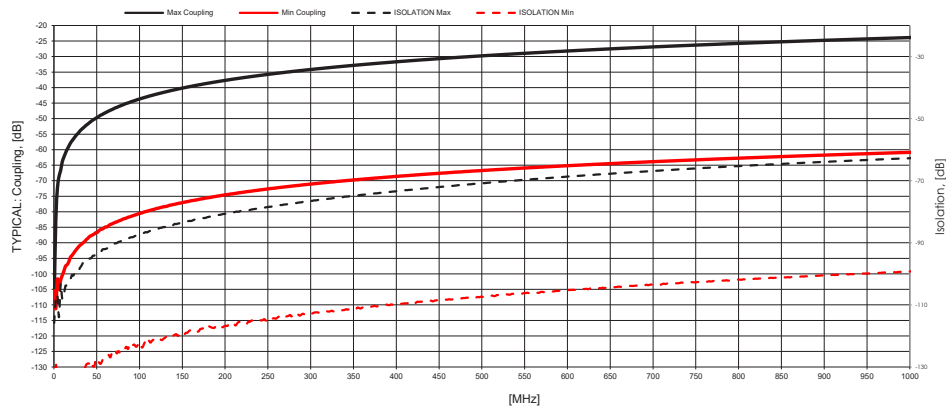
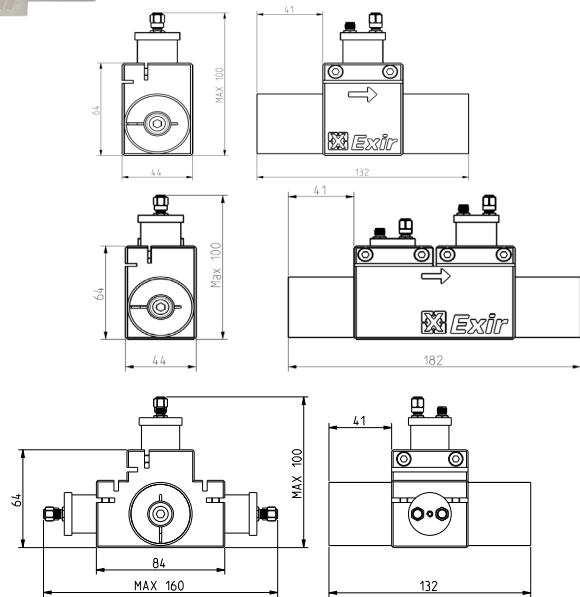
- Forward and reverse couplers
- Adjustable coupling
- Low VSWR
- Low cost



PRODUCT PROFILE

Directional couplers consist of a short loop inserted in the rigid line. Each end of the loop is then connected to a suitable contact, i.e. an SMA-type contact. Between the inner conductor and the loop there are two types of coupling - inductive and capacitive. The inductive coupling resembles a short coil with the voltage at each end 180 degrees apart. The capacitive coupling generates a phase voltage at both ends.

All our directional couplers deliver excellent directivity, stable performance and low VSWR.



COMPACT DIRECTIONAL COUPLER		
SPECIFICATIONS	39 mm Series	Option
DIRECTIVITY	32-40 dB	-
COUPLING RANGE	See plot, nom ± 0.1	-
OUTPUT JACK	2 x SMA female	1 x SMA female, 3 x SMA female
IMPEDANCE	50 Ohm	-
RETURN LOSS (VSWR)	>32 dB (<1.05)	-
FREQUENCY RANGE	50 MHz - 1 GHz	300 kHz - 3 GHz
MAX INPUT POWER RATING	RF connector size	-
MAX PRODUCT TEMPERATURE	70 °C	-
ENVIRONMENTAL CONDITION	-5 to 70 °C IP40	Other IP on request
CONNECTORS	1 5/8" unflange	1 5/8" flange
DIMENSIONS MAX (L x W x H)	182 x 44 x 100 mm	-
(Inch)	(7.2 x 1.7 x 3.9 in)	-
WEIGHT	0,7 kg (1.55 lb)	-
FRAME	Stand alone	-
COLOUR	Aluminium	-

ARTICLE: MDIR-2039-11-A

MDIR= Coupler type

2 = Number of probes

1 = 1-probe, 2 = 2-probes, 3 = 3-probes

039 = Coaxial size

1 = Input connector

1 = Output connection

1 = 1 5/8" unflange female, E = 1 5/8" flange female

A = Version