

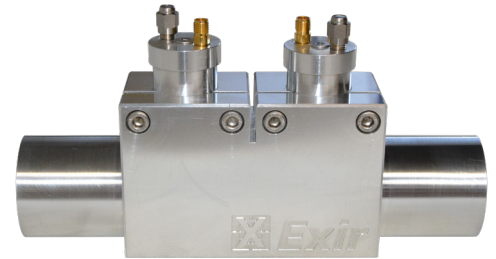
Directional Couplers



Linear Compact Directional Coupler, SMA probe

PRODUCT FEATURES

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



Article structure: ARTICLE: MDIRL2-2077-33-A

- MDIRL** = Coupler type
2 = Frequency band
 2 = Band II, 3 = Band III, 4 = Band IV-V
- 2** = Number of probes
 1 = 1 probe, 2 = 3 probes,
 3 = 3 probes, 6 = 6 probes
- 077** = Coaxial size in mm
- 3** = Input connector
3 = Output connection
- C = N female, D = N male
 A = 7/16 female, B = 7/16 male
 7 = 7/8" unflange, 1 = 1 5/8" unflange
 3 = 3 1/8" unflange female
 4 = 4 1/2" unflange female
 2 = Nax120 unflange female
- A** = Version

SPECIFICATIONS	Linear Series	Option
DIRECTIVITY	32-40 dB	
COUPLING FLATNESS	< ± 0.15 dB	
OUTPUT JACK	2 x SMA female	1-6 x SMA female
IMPEDANCE	50 Ohm	
RETURN LOSS (VSWR)	>32 dB (<1.05)	
MAX PROBE OUTPUT POWER RATING	23 dBm	
MAX PRODUCT TEMPERATURE	70 °C	
ENVIROMENTAL CONDITION	-5 to 70 °C IP40	
COLOUR	Aluminium	

COMPACT LINEAR DIRECTIONAL COUPLER, BAND II					
SPECIFICATIONS	MDIRL2-2020-xx-A	MDIRL2-2039-11-A	MDIRL2-2077-33-A	MDIRL2-2103-44-A	MDIRL2-2125-22-A
FREQUENCY RANGE	87 MHz - 108 MHz	87 MHz - 108 MHz	87 MHz - 108 MHz	87 MHz - 108 MHz	87 MHz - 108 MHz
COUPLING RANGE	49-79 dB, nom ±0.1	55-85 dB, nom ±0.1	61-91 dB, nom ±0.1	65-95 dB, nom ±0.1	66-96 dB, nom ±0.1
MAX INPUT POWER RATING	RF Connector size	RF Connector size	RF Connector size	RF Connector size	RF Connector size
CONNECTORS	N female/ male 7/16 female/ male 7/8" unflange/ flange	1 5/8" unflange	3 1/8" unflange	4 1/2" unflange	NAX 120 unflange
DIMENSIONS MAX (L x W x H)	178 x 33 x 90 mm	182 x 44 x 110 mm	203 x 84 x 160 mm	205 x 110 x 190 mm	205 x 130 x 200 mm
(Inch)	(7.0 x 1.3 x 3.54 in)	(7.2 x 1.73 x 4.33 in)	(8.0 x 3.3 x 6.30 in)	(8.07 x 4.3 x 7.48 in)	(8.07 x 5.12 x 7.87 in)
WEIGHT	0,6 kg (1.32 lb)	0,7 kg (1.55 lb)	2,2 kg (4.85 lb)	3,4 kg (7.05 lb)	4,6 kg (10.14 lb)

COMPACT LINEAR DIRECTIONAL COUPLER, BAND III					
SPECIFICATIONS	MDIRL3-2020-xx-A	MDIRL3-2039-11-A	MDIRL3-2077-33-A	MDIRL3-2103-44-A	MDIRL3-2125-22-A
FREQUENCY RANGE	170 MHz - 260 MHz	170 MHz - 260 MHz	170 MHz - 260 MHz	170 MHz - 260 MHz	170 MHz - 260 MHz
COUPLING RANGE	40-80 dB, nom ±0.1	46-86 dB, nom ±0.1	52-92 dB, nom ±0.1	56-96 dB, nom ±0.1	57-97 dB, nom ±0.1
MAX INPUT POWER RATING	RF Connector size	RF Connector size	RF Connector size	RF Connector size	RF Connector size
CONNECTORS	N female/ male 7/16 female/ male 7/8" unflange/ flange	1 5/8" unflange	3 1/8" unflange	4 1/2" unflange	NAX 120 unflange
DIMENSIONS MAX (L x W x H)	178 x 33 x 90 mm	182 x 44 x 110 mm	203 x 84 x 160 mm	205 x 110 x 190 mm	205 x 130 x 200 mm
(Inch)	(7.0 x 1.3 x 3.54 in)	(7.2 x 1.73 x 4.33 in)	(8.0 x 3.3 x 5.12-5.98 in)	(8.07 x 4.3 x 7.48 in)	(8.07 x 5.12 x 7.87 in)
WEIGHT	0,6 kg (1.32 lb)	0,7 kg (1.55 lb)	2,2 kg (4.85 lb)	3,4 kg (7.05 lb)	4,6 kg (10.14 lb)

COMPACT LINEAR DIRECTIONAL COUPLER, BAND IV-V					
SPECIFICATIONS	MDIRL4-2020-xx-A	MDIRL4-2039-11-A	MDIRL4-2077-33-A	MDIRL4-2103-44-A	MDIRL4-2125-22-A
FREQUENCY RANGE	470 MHz - 860 MHz	470 MHz - 860 MHz	470 MHz - 860 MHz	470 MHz - 860 MHz	470 MHz - 860 MHz
COUPLING RANGE	35-55 dB, nom ±0.1	41-61 dB, nom ±0.1	47-67 dB, nom ±0.1	51-71 dB, nom ±0.1	52-72 dB, nom ±0.1
MAX INPUT POWER RATING	RF Connector size	RF Connector size	RF Connector size	RF Connector size	RF Connector size
CONNECTORS	N female/ male 7/16 female/ male 7/8" unflange/ flange	1 5/8" unflange	3 1/8" unflange	4 1/2" unflange	NAX 120 unflange
DIMENSIONS MAX (L x W x H)	178 x 33 x 90 mm	182 x 44 x 110 mm	203 x 84 x 160 mm	205 x 110 x 190 mm	205 x 130 x 200 mm
(Inch)	(7.0 x 1.3 x 3.54 in)	(7.2 x 1.73 x 4.33 in)	(8.0 x 3.3 x 5.12-5.98 in)	(8.07 x 4.3 x 7.48 in)	(8.07 x 5.12 x 7.87 in)
WEIGHT	0,6 kg (1.32 lb)	0,7 kg (1.55 lb)	2,2 kg (4.85 lb)	3,4 kg (7.05 lb)	4,6 kg (10.14 lb)