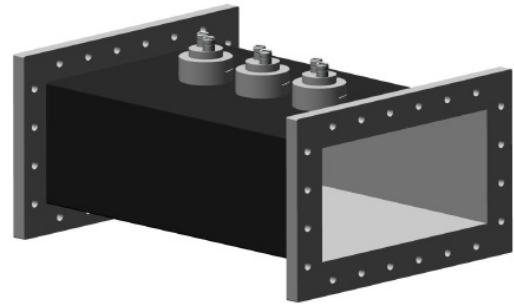


Waveguide Directional Coupler

EIA / IEC



PRODUCT FEATURES

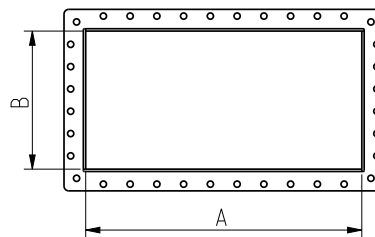
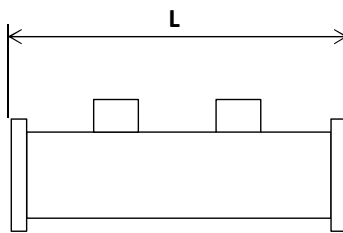
- High quality low-loss aluminium alloy
- Can be optimised for customer frequency
- Customised length
- Standards, RS-271-A, RS-261, IEC 60154-2, IEC 60153-1, 2, MIL-DTL-85K, MIL-DTL-3922D

PRODUCT PROFILE

Exir Broadcasting supplies Waveguide lines of different types. Low-loss aluminium alloys are used to ensure high conductivity.

Exir Broadcastings waveguides fulfill all general standards. It's welded in a welding process with no welding in direction of propagation which yield excellent performance and minimise loss.

More detailed information is available on request.



ARTICLE: WR1500-DC2-A

- WR = Rigid type
- 1500 = Size of line
- DC2 = No of Probe and type
- A = Version

ARTICLE	WR2300-DCx-x	WR23HH-DCx-x	WR1800-DCx-x	WR1500-DCx-x	WR1150-DCx-x	WR650-DCx-x	
TYPE OF LINE	WR2300 (R3)	WR2300 Half Height	WR1800 (R5)	WR1500 (R6)	WR1150 (R7)	WR650 (R14)	OPTIONS
RECOMMENDED FREQUENCY	330 - 460 MHz	330 - 460 MHz	420 - 580 MHz	510 - 700 MHz	660 - 920 MHz	1170 - 1620 MHz	Customized freq.
IEC FREQUENCY	320 - 490 MHz	320 - 490 MHz	410 - 620 MHz	490 - 750 MHz	640 - 980 MHz	1130 - 1730 MHz	
RECOMMENDED FREQ. RETURN LOSS (VSWR)	>32 dB (<1.05)	>32 dB (<1.05)	>32 dB (<1.05)	>32 dB (<1.05)	>32 dB (<1.05)	>32 dB (<1.05)	
IEC FREQ. RETURN LOSS (VSWR)	>26 dB (<1.10)	>26 dB (<1.10)	>26 dB (<1.10)	>26 dB (<1.10)	>26 dB (<1.10)	>26 dB (<1.10)	
MAX PEAK POWER RATING @ min/max Freq.	286 / 405 MW	143 / 202 MW	175 / 248 MW	121 / 172 MW	71 / 101 MW	23 / 32 MW	
MAX AVG. POWER RATING @ min/max Freq.	1254 / 1841 kW	659 / 872 kW	689 / 1009 kW	443 / 647 kW	234 / 340 kW	62 / 88 kW	
COUPLING FACTOR	40 to 75 dB ±0,5dB	40 to 75 dB ±0,5dB	40 to 75 dB ±0,5dB	40 to 75 dB ±0,5dB	40 to 75 dB ±0,5dB	40 to 75 dB ±0,5dB	Other on request
DIRECTIVITY	30 dB	30 dB	30 dB	30 dB	30 dB	30 dB	Other on request
PROBE INTERFACE	N-type female	N-type female	N-type female	N-type female	N-type female	N-type female	Other on request
A	584.2 mm	584.2 mm	457.2 mm	381.0 mm	292.1 mm	165.1 mm	
B	292.1 mm	146.05 mm	228.6 mm	190.5 mm	146.05 mm	82.55 mm	
LENGTH (L)	500 mm	500 mm	500 mm	500 mm	500 mm	250 mm	Customized length
WALL THICKNES	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm	
WEIGHT	Depending on length and number of probes	Depending on length and number of probes	Depending on length and number of probes	Depending on length and number of probes	Depending on length and number of probes	Depending on length and number of probes	
MATERIAL	6082-T6	6082-T6	6082-T6	6082-T6	6082-T6	6082-T6	Other on request
COLOUR	Frosted black	Frosted black	Frosted black	Frosted black	Frosted black	Frosted black	Other on request

Notes: The Recommended Frequency Range corresponds to wavelength that is between 1.6 times the guide width and 1.05 times the guide width. This range may be extended however attenuation will increase significantly below this frequency range and higher order waveguide modes may start to propagate above it.

Attenuation is based on 6082-T6 aluminum waveguide with ra 1,6 surface finish. Average power is based on unpressurized painted aluminum waveguide under free convection cooling with an operating temperature that is 25°C above the ambient temperature. Cooling options should be considered if the waveguide will be operating at higher power levels, please consult the factory.