

Waveguide Cavity-Ferrite Transmitter Combiner, 851-869 MHz, 8 Channel

Product Description

These extremely compact combiners use a "shared wall" waveguide cavity assembly with an integrated antenna port junction, in combination with a dual isolators for each channel. The isolators have integrated loads. Each isolator has a built-in sampling port to allow measurements of reflected power, particularly useful when retuning the combiner. A patented temperature compensation scheme gives these combiners excellent frequency stability over the complete operating temperature and power ranges. The WIJD862-02S model is recommended for field expansion only.



2 Units Harnessed Together

WIJD862 Series

Features/Benefits

- **Low loss – Maximizes system performance.**
- **High isolation – Minimizes possibility of intermodulation.**
- **Modular – Compact design minimizes rack-mounting footprint.**
- **Fully temperature compensated – Ensures consistent performance across temperature and power range.**
- **Expandable – Up to 20 channels.**

Technical Specifications

Product Type	Waveguide
Application	Trunking, SMR
Number of Channels	8
Input Power/Channel Range, Watts	60 to 150
Minimum Channel Spacing, kHz	150
End-Mount (Yes/No)	Yes
Frequency Range, MHz	851-869
Reflected Power, Max. Allowable from Ant., Watts	150
Bandwidth, MHz	18
Separation, Min., kHz	150
Isolation, Min. Tx-Tx, dB	60
Isolation, Min. Ant.-Tx., dB	50
Insertion Loss, Max. per Channel, dB	4.7
Channel Separation for Specifications Given, kHz	150
Continuous Power Input, Max. per Channel, Watts	150
Input Return Loss, Min., dB	19.0
Output Return Loss, Min., dB	8.5
Connectors - Input	N-Female
Connectors - Output	7-16 DIN-Female
Connectors - Sampling Port	BNC-Female
Sampling Port Coupling, dB	35+/-5
Temperature Range, °C (°F)	-30 to +60 (-22 to +140)
Height, mm (in)	356 (14)
Width, mm (in)	483 (19)
Depth, mm (in)	436 (17-5/32)
Mounts in 19" (483mm) EIA Rack (Yes/No)	Yes
Weight, kg (lb)	61.7 (136)
Harness Kit	Use HRNWIJD862-DUAL or HRNWIJD862-Quad for expansion
Ant Conn	7-16 DIN
Harness Kit Capability	Connects a third WIJD862 to the existing WIJD862 module pair

Notes**Other Documentation**



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All information contained in the present datasheet is subject to confirmation at time of ordering

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