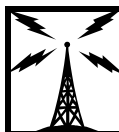
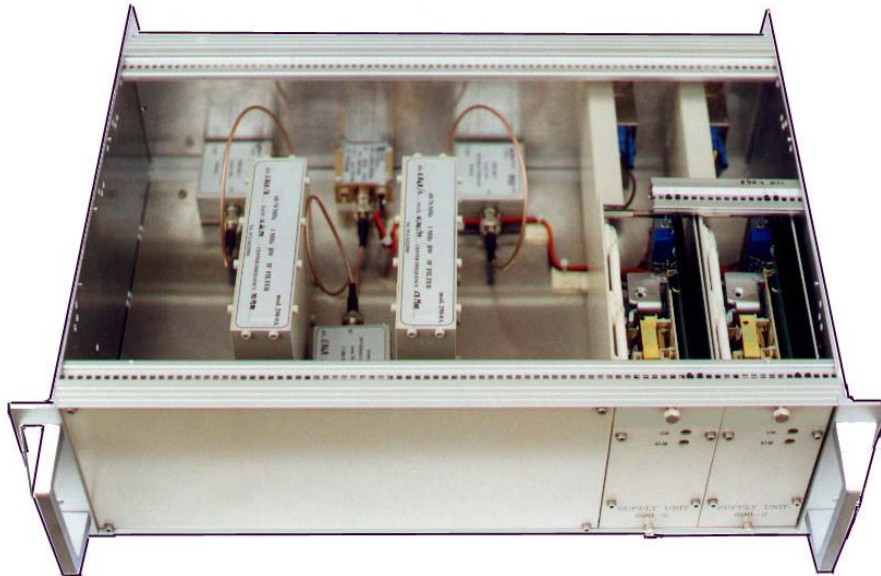


FERRITE POWER COMBINER



ELRAD srl

Via Ugo Foscolo 8 20024 GARBAGNATE MILANESE MI ITALY

Tel. 02-99068562

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TITOLO/TITLE

FERRITE POWER COMBINER

DISEGNI E DOCUMENTI DI PROPRIETA' DI
ELRAD srl.
 DIFFUSIONE E RIPRODUZIONE VIETATA
 A TERMINI DI LEGGE.

CODICE/CODE

375EC05B.PUB

PREPARED A. Benedetti

DATA/DATE

REV.

PAG./PAGE

APPROVED I. Marini

02/06

B

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FOUR CHANNELS HYBRID-FERRITE ANTENNA COMBINER
mod. 375-01


These ELRAD combiners are designed to reduce cost and space by coupling multiple close spaced transmitters into one antenna. They are highly compact, modular and accommodate close channel spacing with very high isolation.

Transmitter to transmitter decoupling up to 80 dB available in option.

PRODUCT SPECIFICATIONS

Product Type	Hybrid-Ferrite passive combiner
Frequency Band	VHF 136 MHz - 174 MHz
Number of Channels	2
Input Power/Channel Range, Watts	50 RMS continuous
Minimum Channel Spacing, KHz	25
Reflected Power, Max. Allowable from Ant., Watts	60
Bandwidth, MHz	12
Isolation, Min. Tx-Tx, dB	55 (80 dB optional)
Isolation, Min. Ant.-Tx., dB	50
Insertion Loss, Max. per Channel, dB	4.2 (4.0 dB typ.)
Input Return Loss, Min., dB	19.0
Output Return Loss, Min., dB	19.0
Connectors - Input/Output	N-Female
Temperature Range, °C (°F)	-30 to +60
Mechanics	19" 3U (132 mm.) 360 mm. depth
Weight, Kg.	10



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TITOLO/TITLE <p align="center">FERRITE POWER COMBINER</p>

DISEGNI E DOCUMENTI DI PROPRIETA' DI ELRAD srl. DIFFUSIONE E RIPRODUZIONE VIETATA A TERMINI DI LEGGE.	CODICE/CODE 375EC05B.PUB			
	PREPARED A. Benedetti APPROVED I. Marini	DATA/DATE 02/06	REV. B	PAG./PAGE 2/6

FOUR CHANNELS HYBRID-FERRITE ANTENNA COMBINER
mod. 375-02


These ELRAD combiners are designed to reduce cost and space by coupling multiple close spaced transmitters into one antenna. They are highly compact, modular and accommodate close channel spacing with very high isolation.

Transmitter to transmitter decoupling up to 80 dB available in option.

PRODUCT SPECIFICATIONS

Product Type	Hybrid-Ferrite passive combiner
Frequency Band	VHF 136 MHz - 174 MHz
Number of Channels	4
Input Power/Channel Range, Watts	50 RMS continuous
Minimum Channel Spacing, KHz	25
Frequency Range, MHz	406-512
Reflected Power, Max. Allowable from Ant., Watts	60
Bandwidth, MHz	12
Isolation, Min. Tx-Tx, dB	55 (80 dB optional)
Isolation, Min. Ant.-Tx., dB	50
Insertion Loss, Max. per Channel, dB	8.0 (7.5 dB typ.)
Input Return Loss, Min., dB	19.0
Output Return Loss, Min., dB	19.0
Connectors - Input/Output	N-Female
Temperature Range, °C (°F)	-30 to +60
Mechanics	19" 3U (132 mm.) 360 mm. depth
Weight, Kg.	10



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	APPROVED			

FOUR CHANNELS HYBRID-FERRITE ANTENNA COMBINER
mod. 375-03


These ELRAD combiners are designed to reduce cost and space by coupling multiple close spaced transmitters into one antenna. They are highly compact, modular and accommodate close channel spacing with very high isolation.

Transmitter to transmitter decoupling up to 80 dB available in option.

PRODUCT SPECIFICATIONS

Product Type	Hybrid-Ferrite passive combiner
Frequency Band	UHF 380 MHz - 512 MHz
Number of Channels	2
Input Power/Channel Range, Watts	50 RMS continuous
Minimum Channel Spacing, KHz	25
Frequency Range, MHz	406-512
Reflected Power, Max. Allowable from Ant., Watts	60
Bandwidth, MHz	12 ÷ 50
Isolation, Min. Tx-Tx, dB	55 (80 dB optional)
Isolation, Min. Ant.-Tx., dB	50
Insertion Loss, Max. per Channel, dB	4.2 (4.0 dB typ.)
Input Return Loss, Min., dB	19.0
Output Return Loss, Min., dB	19.0
Connectors - Input/Output	N-Female
Temperature Range, °C (°F)	-30 to +60
Mechanics	19" 3U (132 mm.) 360 mm. depth
Weight, Kg.	8



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FOUR CHANNELS HYBRID-FERRITE ANTENNA COMBINER
mod.375-04


These ELRAD combiners are designed to reduce cost and space by coupling multiple close spaced transmitters into one antenna. They are highly compact, modular and accommodate close channel spacing with very high isolation.

Transmitter to transmitter decoupling up to 80 dB available in option.

PRODUCT SPECIFICATIONS

Product Type	Hybrid-Ferrite passive combiner
Frequency Band	UHF 380 MHz - 512 MHz
Number of Channels	4
Input Power/Channel Range, Watts	50 RMS continuous
Minimum Channel Spacing, KHz	25
Frequency Range, MHz	406-512
Reflected Power, Max. Allowable from Ant., Watts	60
Bandwidth, MHz	12 ÷ 50
Isolation, Min. Tx-Tx, dB	55 (80 dB optional)
Isolation, Min. Ant.-Tx., dB	50
Insertion Loss, Max. per Channel, dB	8.0 (7.5 dB typ.)
Input Return Loss, Min., dB	19.0
Output Return Loss, Min., dB	19.0
Connectors - Input/Output	N-Female
Temperature Range, °C (°F)	-30 to +60
Mechanics	19" 3U (132 mm.) 360 mm. depth
Weight, Kg.	10



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8 CHANNELS RECEIVER MULTICOUPLER
mod. 375-05

The ELRAD 375-05 model is designed to retrofit the receiver-multicoupler unit in the base station rack. This unit may improve the receive sensitivity over the original equipment performance, while preserving the form-fit-function of the original unit. A sensor port is provided, connected with a TNC female connector, for monitoring performance as required.

PRODUCT SPECIFICATIONS

Frequency Band	746 MHz - 1000 MHz
Product Type	Cellular receiver multicoupler
Frequency range, MHz	824-849
Number of Outputs	8
Power Supply Voltage	18-30 Vdc (negative to ground)
Bandwidth, MHz	25
Isolation between Rx Ports, dB	25 (typ.); 20 (min.)
System Noise Figure, dB	2.7 (typ.)
Amplifier Output IP3, dBm	+39
System Gain, Minimum, dB	2 outs + 6 dB 3 outs + 13 dB 3 outs + 22 dB
Connector - Antenna Input	N-Female
Connector - Receiver Outputs	TNC-Female
Power Consumption, Maximum, Watts	20.0
Mechanics	19" 3U (132 mm.) 360 mm. depth
Weight, kg	8

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