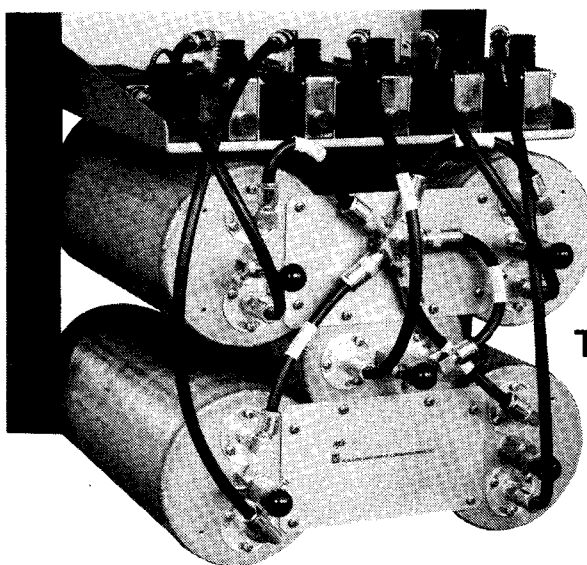




800 MHz TRUNKED SYSTEM TRANSMITTER COMBINER

NEW



TRK800-5X10

FEATURES

- HIGH "Q" CAVITY
- LOW INSERTION LOSS
- HEAVY DUTY CAVITY WALL
- RUGGED MECHANICAL DESIGN
- NEW RESONATOR DESIGN
- DUAL JUNCTION FERRITE ISOLATORS
- EASILY EXPANDABLE
- COMPACT

BENEFITS

- FREQUENCY SELECTIVITY
- MAXIMUM TX POWER
- FREQUENCY STABILITY
- TEMPERATURE STABLE
- EASY FIELD TUNING
- MINIMIZED TX INTERMODULATION
- SIMPLE CHANNEL EXPANSION
- CONSERVE SITE SPACE

The TRK800-5X10 is a new 5 channel, expandable to ten channel, transmitter combiner designed specifically for 800 MHz trunked systems. The compact modular design allows for additions of channels without major disruption of the system.

The individual channels use thick wall three quarter wave aluminum cavities for maximum strength, tuning and temperature stability which provides maximum "Q" and minimum insertion loss. The resonator plunger is silver plated for excellent contact and maximum power. A dual junction isolator on each channel provides maximum isolation between transmitters. A choice of optional isolators are available to provide additional isolation to meet specific system requirements. Intermodulation products are down -75dB or greater at 70 watts input. M/A-COM's new Transmitter Combiner establishes a new standard in combiner technology.

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS		TRK800-5X10	TRK800-10X10
FREQUENCY RANGE		*851-866 MHz	
POWER INPUT, MAX. PER CHANNEL		150 WATTS	
FREQUENCY SPACING		1 MHz	500 KHz
INSERTION LOSS		2.4dB MAX	3.1dB MAX
ISOLATION	TX-TX	70dB	60dB
	ANT-TX	55dB	
MEASURED IMD @ 70 WATTS INPUT EACH CHANNEL		-75dB MIN	
VSWR-TX INPUT		1.25:1 MAX	
TEMPERATURE RANGE		-30°C TO +70°C	

*EXACT FREQUENCIES MUST BE SPECIFIED

MECHANICAL SPECIFICATIONS		TRK800-5X10	TRK800-10X10
DIMENSIONS-IN		19WX19.5HX19.25D	19WX39HX19.25D
WEIGHT-LBS		56 lbs	112 lbs
CONNECTORS		N-TYPE FEMALE	

Specifications subject to change without notice.

COMBINER CHANNEL EXPANSION KITS

The TRK800-5X10 is available with less than five channels. The expansion to add additional channels is accomplished using the TRK800-K1 Kit. The TRK800-K1 kit includes the cavity, cable, dual junction isolator, 50 watt terminations and mounting hardware. The expansion from six to ten channels requires the TRK800-K2 kit in addition to the number of TRK800-K1 kits required. Cavities and isolators are factory tuned, so please specify frequency when ordering new channels.

Complete 800 MHz systems and accessories including RX systems, duplexers, preselectors and power monitors are available. Please consult with our technical sales engineering department for detailed specifications.