

## High Power, 2 Channel PCS Transmit Combiner 1930 - 1990 MHz

**PD60-0008-02S**

V1.00

### Features

- Low Loss
- High Power Handling
- Integral Heat Sink
- High Isolation
- Low VSWR
- Low Cost

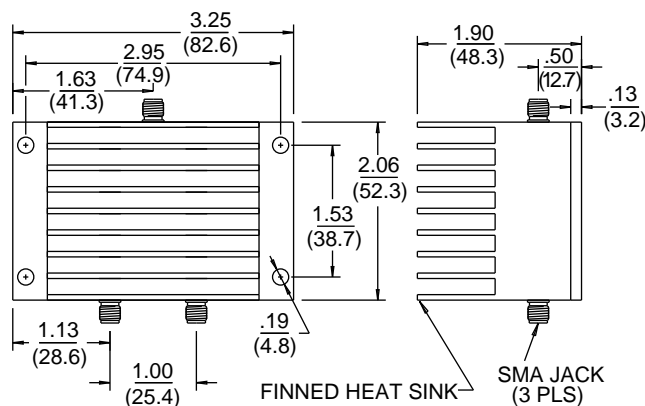
### Description

M/A-COM's PD60-0008-02S is designed to provide a low loss method of combining signals from two transmitters at PCS frequencies. High power internal components and an integral heat sink enables the device to combine non-coherent 20 Watt signals. The housing and heat sink are fabricated as one piece for optimum heat transfer and low cost. The insertion loss, when combining non-coherent signals is a low -3.17dB nominal, only 0.15dB above theoretical loss for a 2-way device. Microstrip construction offers a design that is cost effective and highly repeatable.

### Performance Specifications: 1930-1990 MHz

Parameter	Limit	Typical
Impedance	50 Ohms Nom	—
VSWR	1.25:1 Max	1.10:1
Insertion Loss*	0.3dB Max	0.15dB
Amplitude Balance	0.20dB Max	0.05dB
Isolation	20dB Min	27dB
Max Input Power	20 Watts/Input	—
Operating Temp	-40 to +60°C	—

\*Above 3dB Theoretical Combining Loss



(Dimensions in parenthesis are in mm)

The required method of cooling is forced air at 10 CFM at +60°C Max ambient for two 20 Watt simultaneous inputs. If the input power level or ambient temperature is lowered, the forced air requirement can be reduced.

This device can be provided with type N connectors or increased power handling capability. M/A-COM also offers a wide selection of cost effective devices for combining and dividing any number of channels in popular cellular transmit and receive bands. Please consult our factory.