

High Power, 4 Channel PCS Transmit Combiner

1930 - 1990 MHz

PD60-0003-04S

V2.00

Features

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

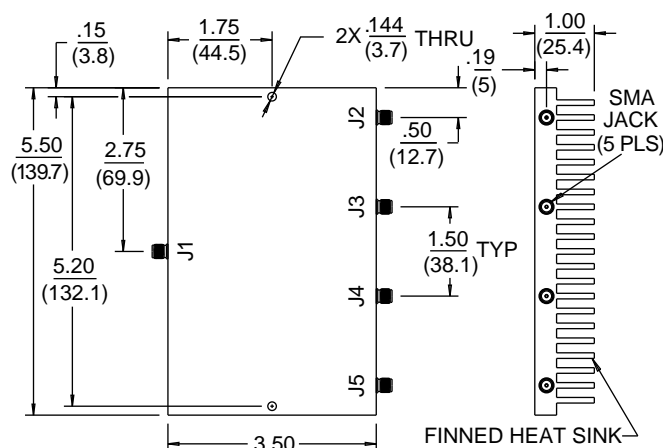
Description

M/A-COM's PD60-0003-04S is designed to provide a low loss method of combining signals from four transmitters at PCS frequencies. High power internal components and an integral heat sink enables the device to combine non-coherent 25 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 -6.27dB nominal, only 0.25dB above theoretical loss for a 4-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*	0.5dB Max	0.25dB
Amplitude Balance	0.25dB Max	0.08dB
Isolation	20dB Min	27dB
Max Input Power	25 Watts/Input	—
Operating Temp	-40 to +60°C	—

*Above 6dB Theoretical Combining Loss



(Dimensions in parenthesis are in mm)

The required method of cooling is forced air at 35 CFM at +60°C Max ambient, for four 25 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.