

High Power, 5 Channel Transmit Combiner for AMPS/GSM/IS-95 800 - 960 MHz PD60-0004-05S

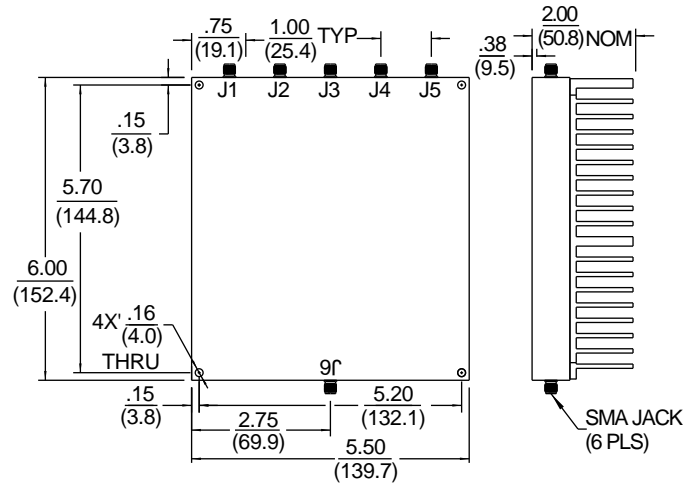
V1.00

Features

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

Description

M/A-COM's PD60-0004-05S is designed to provide a low loss method of combining signals from five amplifiers or transmitters in a number of cellular bands. High power internal components and an integral heat sink enables the device to combine non-coherent 50 Watt signals. Microstrip construction offers a design that is cost effective and highly repeatable.



(Dimensions in parenthesis are in mm)

Performance Specifications: 800-960 MHz

| Parameter | Limit | Typical |
|-------------------|----------------|---------|
| Impedance | 50 Ohms Nom | — |
| VSWR | 1.40:1 Max | 1.20:1 |
| Insertion Loss* | 0.6dB Max | 0.4dB |
| Amplitude Balance | 0.25dB Max | 0.12dB |
| Isolation | 20dB Min | 26dB |
| Max Input Power | 50 Watts/Input | — |
| Operating Temp | -40 to +60°C | — |

*Above 7.78dB Theoretical Combining Loss

The required method of cooling is forced air at 50 CFM at +60°C Max ambient for five 50 Watt simultaneous inputs. If the power level or ambient temperature is lowered, the forced air requirement can be reduced.

This device can be provided with type N connectors or different 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.

The Preliminary Specifications Data Sheet Contains Typical Electrical Specifications Which May Change Prior to Final Introduction.

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