



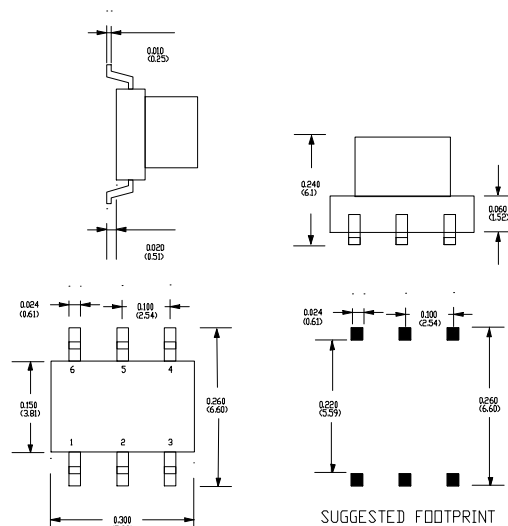
# E-Series 75 Ohm Coupler 40 - 1000 MHz

## Features

- Coupling 7db Typical
- Surface Mount
- Tape and Reel Packaging available



## SM-137 Package



## Description

M/A-COM's MACPES0028 is a high performance 75 Ohm Coupler, in a SM-137 low cost, surface mount package.

## Electrical Specifications @25°C

| Frequency Range     | 40- 1000 MHz | Units | Nominal | Typical | Minimum | Maximum |
|---------------------|--------------|-------|---------|---------|---------|---------|
| Mainline Loss       | 40- 1000 MHz | dB    | —       | 1.9     | —       | 3.0     |
| Coupling            | 40- 1000 MHz | dB    | 7.0     | —       | —       | ± 0.5   |
| Directivity         | 40- 1000 MHz | dB    | —       | 15.5    | 7.0     | —       |
| Input Return Loss   | 40- 1000 MHz | dB    | —       | 22      | 15      | —       |
| Output Return Loss  | 40- 1000 MHz | dB    | —       | 25      | 15      | —       |
| Coupled Return Loss | 40- 1000 MHz | dB    | —       | 22      | 14.5    | —       |

Please Note that the photograph above indicates package shape only, unit may be wired differently.

S 1598 A



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Specifications subject to change without notice.

Operating Characteristics

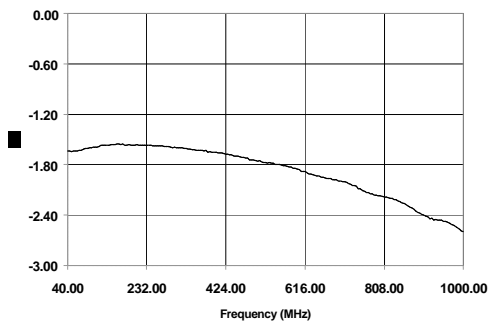
| Function         | Pin No. |
|------------------|---------|
| Input            | 1       |
| Output           | 6       |
| Coupled          | 3       |
| Ground           | 5       |
| Not Connected    | 2       |
| External 75 Ohms | 4       |

Absolute Maximum Ratings

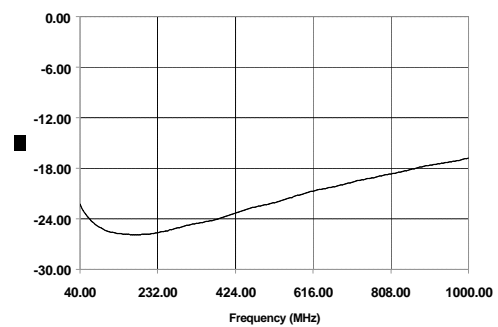
| Parameter                     | Absolute Maximum |
|-------------------------------|------------------|
| RF Power                      | 250 mW           |
| DC Current                    | 30 mA            |
| Pin Temperature (10 sec)      | 260°C            |
| Operating/Storage Temperature | -40°C to +85°C   |

Typical Performance @ 25°C

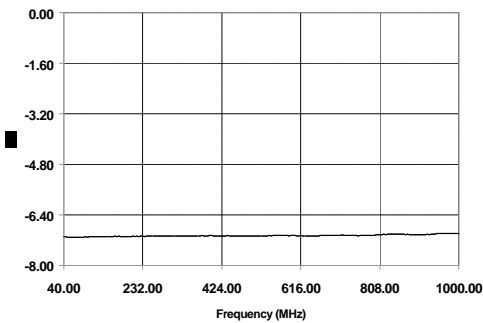
Mainline Loss



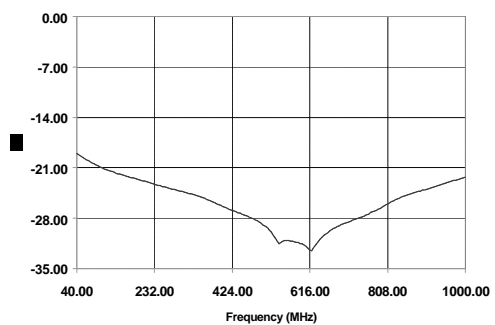
Input Return Loss



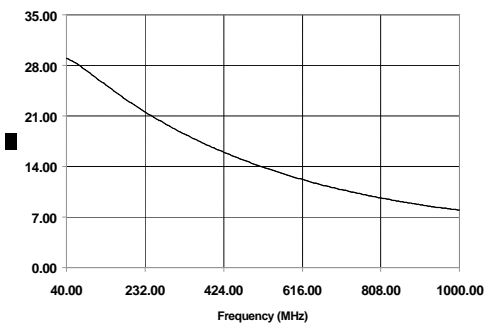
Coupling



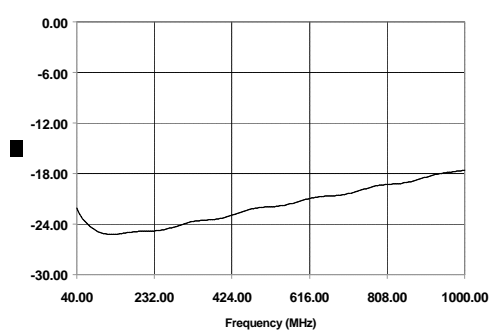
Output Return Loss



Directivity



Coupled Port Return Loss



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