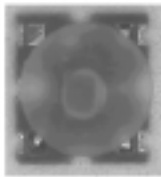




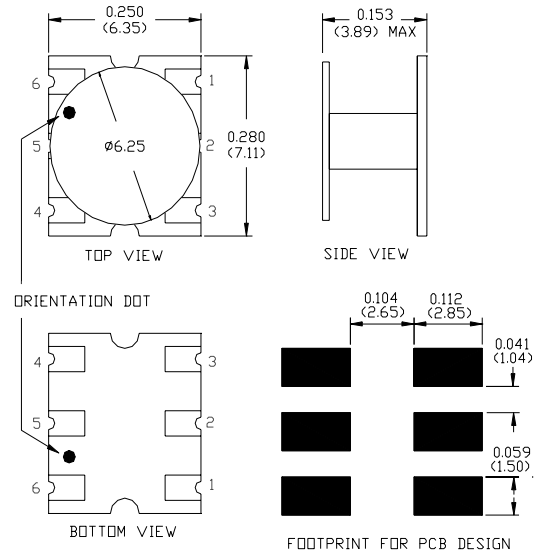
E-Series 75 Ohm Coupler 5 - 1000 MHz

Features

- Coupling 17db Typical
- Surface Mount
- Tape and Reel Packaging available



SM-127 Package



Description

M/A-COM's EMDC-17-8-75 is a 75 Ohm Coupler, in a low cost, surface mount package. The EMDC-17-8-75 is ideally suited for use in high volume CATV applications.

Electrical Specifications @25°C, Z₀ = 75 Ohms

| Frequency Range | 5 - 1000 MHz | Units | Nominal | Typical | Minimum | Maximum |
|---------------------|----------------|-------|---------|---------|---------|---------|
| Mainline Loss | 5 - 860 MHz | dB | — | 0.6 | — | 1.0 |
| | 860 - 1000 MHz | dB | — | 0.8 | — | 1.2 |
| Coupling | 5 - 860 MHz | dB | 17.2 | — | — | ± 0.7 |
| | 860 - 1000 MHz | dB | 17 | — | — | ± 0.8 |
| Coupling Flatness | | dB | — | — | — | 1.0 |
| Directivity | 5 - 50 MHz | dB | — | 40 | 30 | — |
| | 50 - 500 MHz | dB | — | 20 | 12 | — |
| | 500 - 1000 MHz | dB | — | 12 | 5 | — |
| Input Return Loss | 5 - 50 MHz | dB | — | 28 | 24 | — |
| | 50 - 500 MHz | dB | — | 28 | 24 | — |
| | 500 - 1000 MHz | dB | — | 25 | 20 | — |
| Output Return Loss | 5 - 50 MHz | dB | — | 25 | 20 | — |
| | 50 - 500 MHz | dB | — | 25 | 20 | — |
| | 500 - 1000 MHz | dB | — | 23 | 20 | — |
| Coupled Return Loss | 5 - 50 MHz | dB | — | 25 | 20 | — |
| | 50 - 500 MHz | dB | — | 25 | 20 | — |
| | 500 - 1000 MHz | dB | — | 23 | 18 | — |

***Notes:**

1. Core is coated with Paralyene C, 0.005" thick minimum.
2. Wire is heavy poly-nylon coated, rated to 180C.

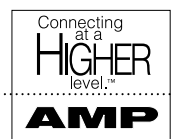
S 1400 E



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Operating Characteristics

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

Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|------------------|
| RF Power | 250 mW |
| DC Current | 30 mA |
| Storage Temperature | -40°C to +85°C |
| Operating Temperature | -40°C to +85°C |

S 1400 E



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