

# E-Series 75 Ohm 16dB Coupler

## 5 – 1200 MHz

PRELIMINARY

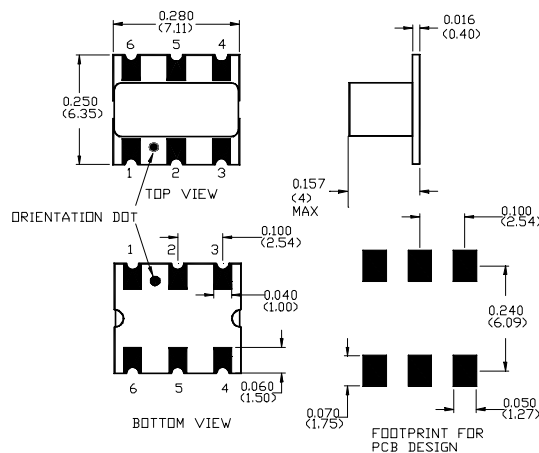
### Features

- Low Intermod Distortion
- Coupling 16dB Typical
- Surface mount
- Tape and Reel Packaging available

### Description

M/A-COM's MACPES0018 is a high performance 75 Ohm Coupler, in a SM-103 low cost, surface mount package. The MACPES0018 is specifically designed for extremely low intermod distortion in CATV applications.

### Package



### Electrical Characteristics @ 25 °C

Parameter		Units	Typical	Minimum	Maximum
Mainline Loss	5 - 40 MHz	dB	0.5	-	0.7
	40-1000MHz	dB	0.7	-	0.9
	1000-1200MHz	dB	0.8	-	1.0
Mainline Loss Flatness	5-1200MHz	dB	0.5	-	0.8
Coupling	5 - 40 MHz	dB	15.9	15.7	16.2
	40-1000MHz	dB	16.0	15.6	16.4
	1000-1200MHz	dB	16.1	15.5	16.5
Coupling Flatness	5-1200MHz	dB	0.5	-	0.8
Directivity	5 - 40 MHz	dB	45	40	-
	40-1000MHz	dB	35	30	-
	1000-1200MHz	dB	32	25	-
Input Return Loss	5 - 40 MHz	dB	24	20	-
	40-1000MHz	dB	22	20	-
	1000-1200MHz	dB	24	20	-
Output Return Loss	5 - 40 MHz	dB	25	22	-
	40-1000MHz	dB	22	20	-
	1000-1200MHz	dB	22	20	-
Coupled Return Loss	5 - 40 MHz	dB	20	18	-
	40-1000MHz	dB	22	20	-
	1000-1200MHz	dB	20	18	-

## Operating Characteristics

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

## Functional Characteristics

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260 C
Operating/Storage Temperature	-20°C to +85°C

## Typical Performance @ 25 °C

