## Features

- Air Dielectric for Low Loss
- Frequency Range: 1.0 to 18 GHz
- Octave Bandwidths
- Meets MIL-E-5400 Environments


## Description

These directional couplers feature compact packaging and four-port construction. This is combination permits flexibility in system designs. They are intended for test and measurement setups as well as for system use. Temperature range is $-54^{\circ}$ to $+110^{\circ} \mathrm{C}$. These units incorporate three miniature, low VSWR SMA jack connectors. Isolated port is terminated with $1 / 2$ watt, 50 ohm load.

## Outline Drawing



NOTE: All dimensions are $\pm .020$, except mounting hole diameters ( $\pm .005$ ) and mounting hole hole diameters $( \pm$.
location $( \pm .010)$.

## Mechanical Specifications

| Case Style | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) |  | F Inch (mm) | G Inch (mm) | $\underset{\text { Inch (mm) }}{\mathrm{H}}$ | Weight oz | Weight g |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2.55 (64.8) | 2.39 (60.8) | 1.97 (50.1) | 1.16 (29.4) | 0.50 (12.7) | 0.38 (9.7) | 0.91 (23.2) | 0.093 (2.36) | 1.90 | 54 |
| 2 | 1.69 (42.7) | 1.52 (38.7) | 1.11 (28.2) | 1.16 (29.4) | 0.50 (12.7) | 0.38 (9.7) | 0.91 (23.2) | 0.093 (2.36) | 1.10 | 31 |
| 3 | 1.41 (35.6) | 1.24 (31.5) | 0.82 (20.8) | 1.16 (29.4) | 0.50 (12.7) | 0.38 (9.7) | 0.91 (23.2) | 0.093 (2.36) | 1.07 | 31 |
| 4 | 1.19 (30.0) | 1.02 (26.0) | 0.60 (15.2) | 1.16 (29.4) | 0.50 (12.7) | 0.38 (9.7) | 0.91 (23.2) | 0.093 (2.36) | 0.98 | 28 |
| 5 | 1.08 (27.4) | 0.92 (23.4) | 0.50 (12.7) | 1.28 (32.6) | 0.63 (15.9) | 0.38 (9.7) | 0.97 (24.6) | 0.093 (2.36) | 1.01 | 30 |

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology
Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed

[^0]Visit www.macomtech.com for additional data sheets and product information.
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## Specifications

| Part Number | Case <br> Style | Freq. <br> Range <br> (GHz) | Coupling <br> (Include. <br> Freq. <br> Sens.(dB) | Freq. <br> Sens. <br> (dB) | Insertion <br> Loss Max <br> (dB) | Direct. <br> Min. <br> (dB) | VSWR <br> Max <br> Prim <br> Line | Power <br> Avg. <br> (W) | Power <br> Pk. <br> (kW) | M/A-COM <br> MIL-C- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15370/10* |  |  |  |  |  |  |  |  |  |  |
| Commercial |  |  |  |  |  |  |  |  |  |  |
| Equivalent Part |  |  |  |  |  |  |  |  |  |  |
| No. |  |  |  |  |  |  |  |  |  |  |$|$

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