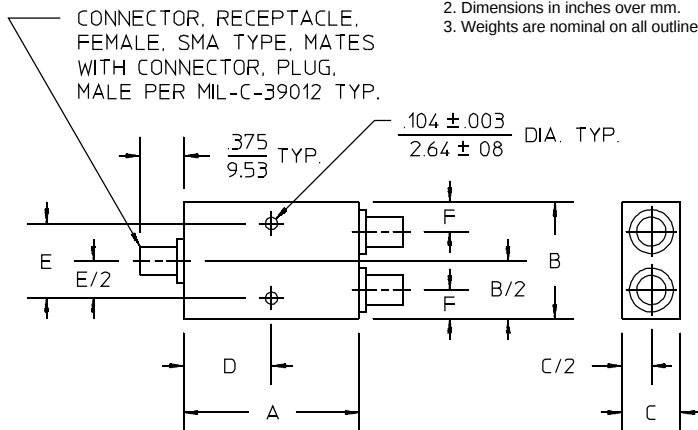
**PRINCIPAL SPECIFICATIONS**

| Model Number | Freq. Range, GHz | Isolation, dB, Min. | Insertion Loss, dB, Max. | Phase Balance, Max. | Amplitude Bal., dB, Max. | VSWR, Max. |        | CW Input, W, Load VSWR out |       |     | Outline Drawing Ref. |
|--------------|------------------|---------------------|--------------------------|---------------------|--------------------------|------------|--------|----------------------------|-------|-----|----------------------|
|              |                  |                     |                          |                     |                          | In         | Out    | 1.2:1                      | 2.0:1 | ∞   |                      |
| PDM-21M-.75G | 0.5 - 1.0        | 22                  | 0.20                     | 2°                  | 0.2                      | 1.20:1     | 1.10:1 | 10                         | 1     | 0.1 | 4                    |
| PDM-21M-1.5G | 1.0 - 2.0        | 22                  | 0.25                     | 3°                  | 0.2                      | 1.25:1     | 1.20:1 | 10                         | 1     | 0.1 | 2                    |
| PDM-21M-3G   | 2.0 - 4.0        | 20                  | 0.30                     | 4°                  | 0.2                      | 1.30:1     | 1.25:1 | 10                         | 1     | 0.1 | 2                    |
| PDM-21M-4G   | 3.0 - 5.0        | 20                  | 0.35                     | 4°                  | 0.2                      | 1.30:1     | 1.30:1 | 10                         | 1     | 0.1 | 2                    |
| PDM-21M-6G   | 4.0 - 8.0        | 20                  | 0.30                     | 4°                  | 0.2                      | 1.30:1     | 1.25:1 | 10                         | 1     | 0.1 | 1                    |
| PDM-21M-10G  | 8.0 - 12.4       | 20                  | 0.40                     | 4°                  | 0.2                      | 1.30:1     | 1.35:1 | 10                         | 1     | 0.1 | 1                    |
| PDM-21M-15G  | 12 - 18          | 20                  | 0.60                     | 5°                  | 0.2                      | 1.35:1     | 1.40:1 | 10                         | 1     | 0.1 | 1                    |

**Package Outline**

## NOTES:

1. Tolerance on 3 place decimals  $\pm .020(.51)$  except as noted.
2. Dimensions in inches over mm.
3. Weights are nominal on all outlines.



| OUTLINE | A                     | B                     | C                    | D                    | E                     | F                    | WT. OZ. (G) |
|---------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|-------------|
| 1       | $\frac{1.000}{25.40}$ | $\frac{1.000}{25.40}$ | $\frac{.500}{12.70}$ | $\frac{.500}{12.70}$ | $\frac{.640}{16.26}$  | $\frac{.250}{6.35}$  | .99 (28)    |
| 2       | $\frac{1.500}{38.10}$ | $\frac{1.500}{38.10}$ | $\frac{.500}{12.70}$ | $\frac{.750}{19.05}$ | $\frac{1.310}{33.27}$ | $\frac{.250}{6.35}$  | 1.94 (55)   |
| 4       | $\frac{1.500}{38.10}$ | $\frac{2.500}{63.50}$ | $\frac{.500}{12.70}$ | $\frac{.530}{13.46}$ | $\frac{2.310}{58.67}$ | $\frac{.750}{19.05}$ | 3.00 (85)   |

**GENERAL SPECIFICATIONS**Impedance: 50  $\Omega$  nom.

Operating Temperature: -55° to +85°C

**General Notes:**

1. The PDM-21(M) series of 2-way In-Phase Power Dividers/Combiners covers 500 MHz to 18 GHz in octave bands. Each uses a conventional Wilkinson design which provides high isolation and low VSWR.
2. Etched PTFE fiberglass stripline circuits are encased in a miniature machined housing that minimizes moding and provides an effective RF shield.
3. These units are generally available from catalog stock for fast delivery.

29Apr96