

QJE-3-.300G – 90° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 100 to 500 MHz
- 500 Watt CW Capacity
- Low Insertion Loss
- Excellent Amplitude Balance
- Filmbrid Package

<u>PRINCIPAL SPECIFICATIONS</u>							
Model Number	Frequency Range, MHz	Performance Bandwidth, MHz	Amplitude Balance, dB, Max.	Phase Tolerance	Isolation, dB, Min.	VSWR, Max.	Weight, oz.(g) Nom.
QJE-3-.300G	100 - 500	100 - 400	±0.75	90° ± 4°	18	1.25:1	4 (112)
		400 - 500	±0.50	90° ± 4°	18		

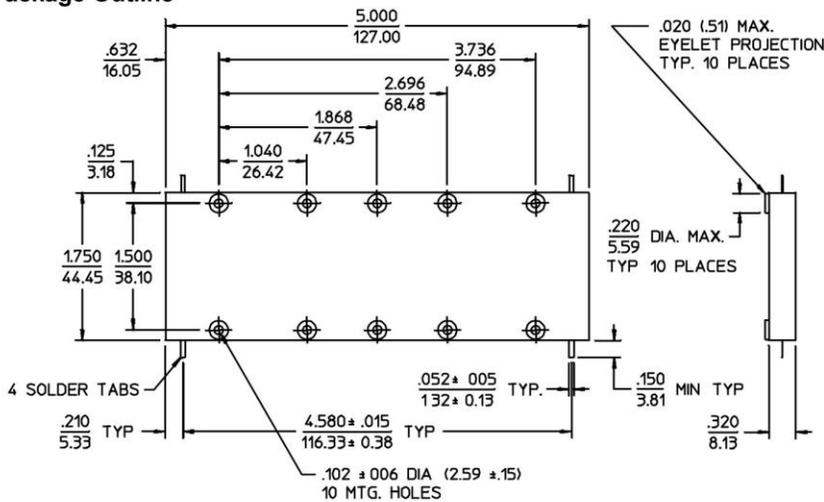
General Notes:

1. The QJE-3-.300G Quadrature Hybrid covers 100 to 500 MHz using a multi-section stripline design with special attention to thermal dissipation. The Filmbrid™ package has been designed to work with high power amplifiers using either microstrip or balanced stripline.
2. Merrimac will provide detailed installation procedures upon request to insure best results in your application.

GENERAL SPECIFICATIONS

Coupling: – 3 dB nom.
 Impedance: 50 Ω nom.
 Insertion Loss: 0.5 dB max., 0.3 typ.
 CW Input: 500 W max. (1.1:1 VSWR)
 200 W max. (2.0:1 VSWR)
 Peak Power: 10 kW max.
 Electrical Connect.: 4 Solder Tabs
 Operating Temp.: – 55° to +85°C

Package Outline



PORT RELATIONSHIP:

Signals applied to any port will split equally between the opposite pair, with the adjacent port remaining isolated. Phase relationship is 0° to immediately opposite port, and – 90° to the diagonal.

NOTES:

1. Tolerance on 3 place decimals ±.020(.51) except as noted.
2. Dimensions in inches over mm.
3. Solder Tabs: .005 ± .0005(.13 ± .01) thick, iron nickel alloy, gold plated

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