

# QJC & QJN SERIES – 90° POWER DIVIDERS/COMBINERS

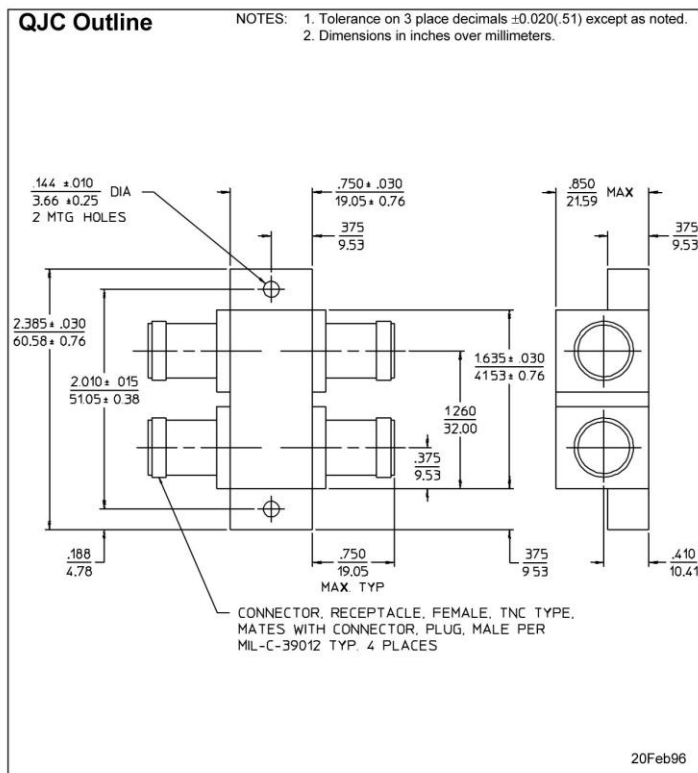
## TECHNICAL FEATURE

### FEATURES

- 100 to 6500 MHz
- Wide Bandwidth
- High Power
- Low Insertion Loss
- Excellent Amplitude Balance
- N or TNC

<b>PRINCIPAL SPECIFICATIONS</b>									
Model Number	Frequency Range, MHz	Performance Bandwidth, MHz	Amplitude Bal., dB, Max.	Phase Tolerance	Isolation, dB, Min.	Insertion Loss, dB, Typ.	Insertion Loss, dB, Max.	VSWR, Max.	Weight, oz.(g) Nom.
QJN-3-.300G	100 - 500	100 - 400 400 - 500	1.5 1.0	90° ± 4°	18	0.3	0.5	1.25:1	12(336)
QJC-2-3.95G	3700 - 4200	3700 - 4200	1.0	90° ± 4°	18	0.3	0.5	1.25:1	4(112)
QJC-2-6.2G	5900 - 6500	5900 - 6500	1.0	90° ± 4°	18	0.3	0.5	1.25:1	4(112)

\*Insert desired Center Frequency /xxxxx allocated by factory



### GENERAL SPECIFICATIONS

Coupling:	– 3 dB nom.
Impedance:	50 Ω nom.
CW Input:	500 W max.(1.1:1 VSWR) 200 W max.(2.0:1 VSWR)
Peak Power:	10 kW max.
Operating Temp.:	– 55° to +85°C
Connectors:	C, LC and HC Optional

### General Notes:

1. The QJN and QJC series of Quadrature Hybrids have been designed for high power terrestrial and aerospace applications and are available for a variety of applications including those covering the 30 to 76 MHz, 100 to 500 MHz and selected microwave bands.
2. Model QJN-4 is designed using heavy gauge wire and high saturation ferrite torroids with careful attention to heat dissipation. Units above 100 MHz utilize the latest high conductivity, composite dielectric materials to prevent localized heat build up due to poor matches.