
PRODUCT DATA SHEET
C3744

4-Port Dual Directional Coupler employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

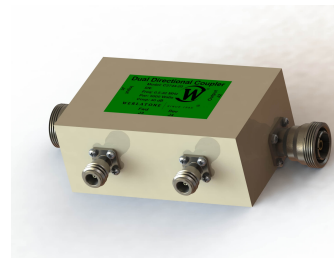
Frequency: 0.5 - 32 MHz
Power: 5,000 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.05 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 20 dB Min.

Mechanical Specifications:

Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F
Type I Class 3 (Yellow Iridite)
RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Humidity: 95% Non-Condensing
Size: 5.0 x 3.0 x 2.24"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|-----------|-------------|-------------|------------|------------|
| C3744-20 | 7/16 Female | 7/16 Female | N Female | N Female |
| C3744-22 | 7/16 Female | 7/16 Female | SMA | SMA |
| C3744-30 | LC Female | LC Female | N Female | N Female |
| C3744-33 | LC Female | LC Female | BNC Female | BNC Female |
| C3744-61 | HN Female | HN Female | N Female | N Female |
| C3744-63 | HN Female | HN Female | SMA | SMA |
| C3744-64 | HN Female | HN Female | BNC | BNC |
| C3744-503 | SQS Female | SQS Female | BNC Female | BNC Female |

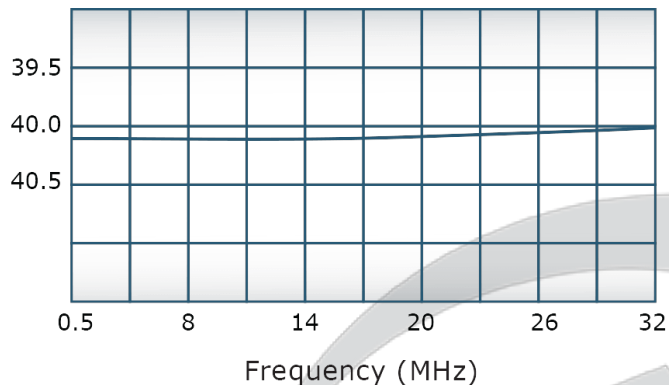


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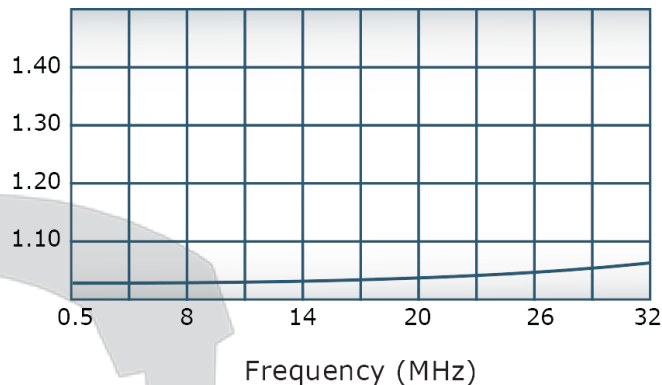
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Performance Data (Specifications subject to change without notice):

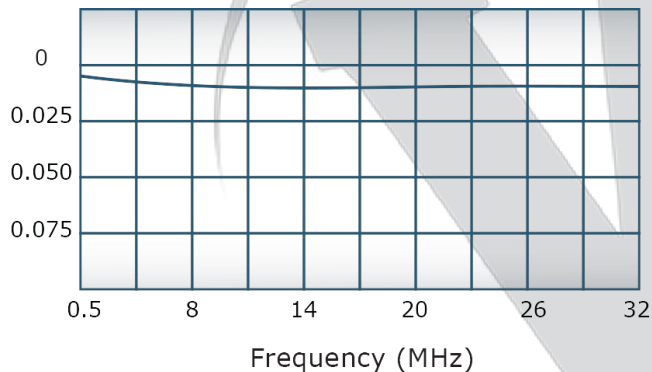
Coupling:



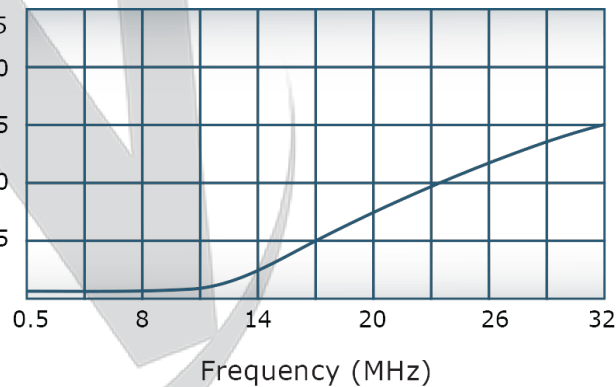
VSWR:



Insertion Loss:



Directivity:



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