
**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

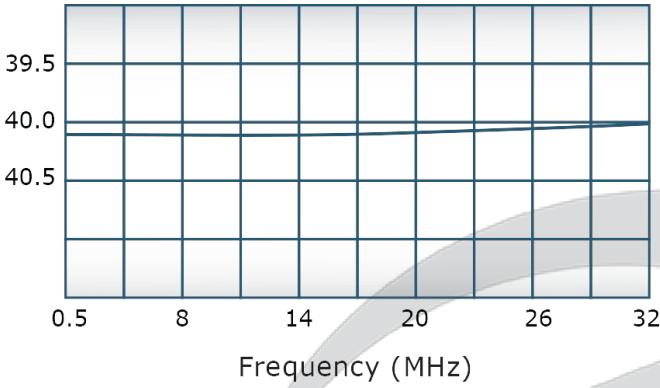


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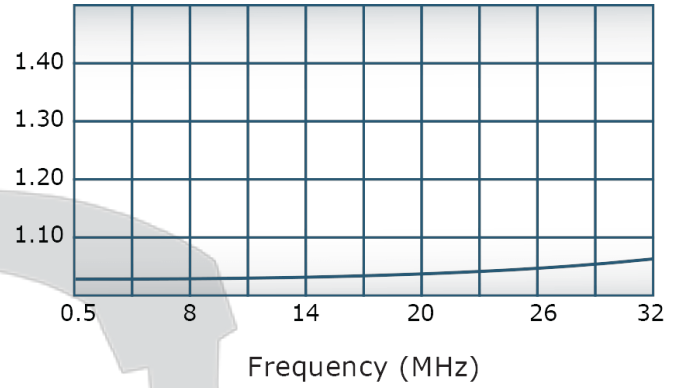
C3744

**Performance Data (Specifications subject to change without notice):**

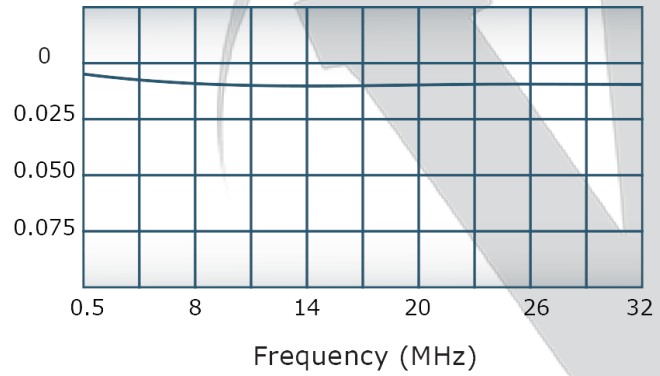
Coupling:



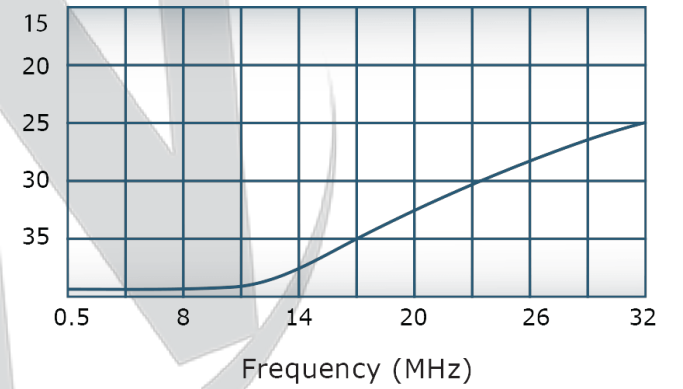
VSWR:



Insertion Loss:



Directivity:



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