
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:

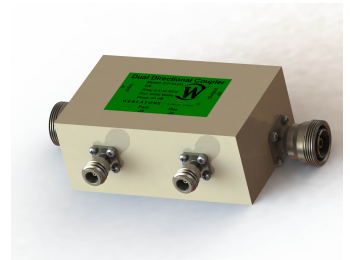
Frequency: 0.5 - 32 MHz
 Power: 5,000 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.05 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.15:1 Max.
 Directivity: 20 dB Min.

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

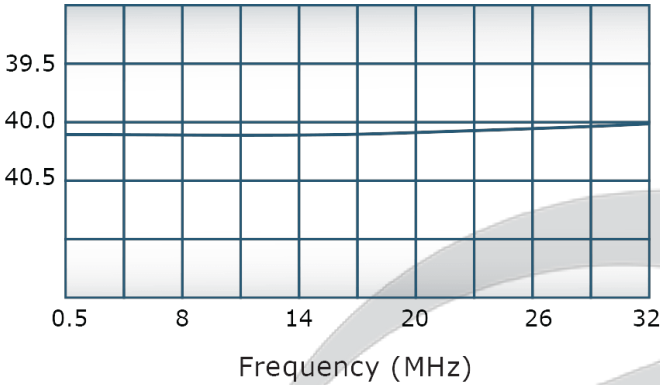


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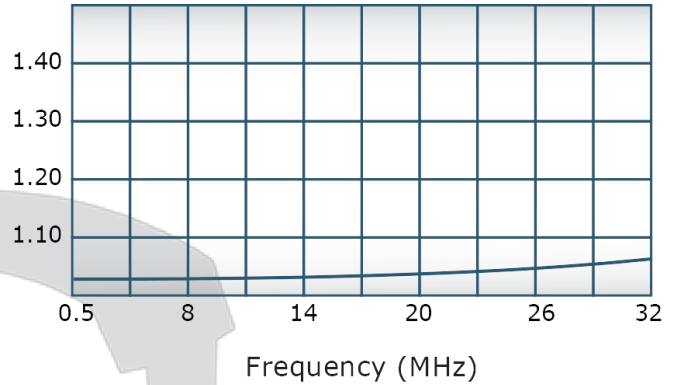
C3744

Performance Data (Specifications subject to change without notice):

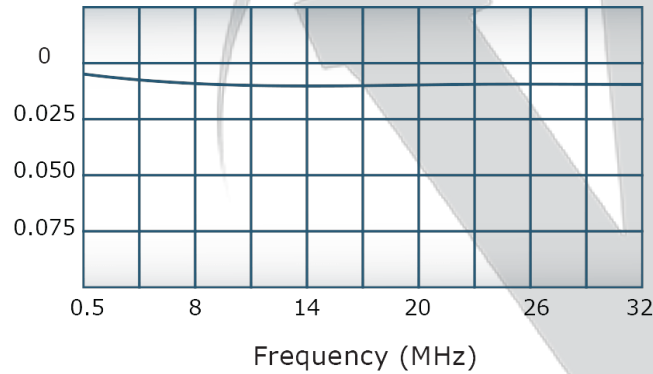
Coupling:



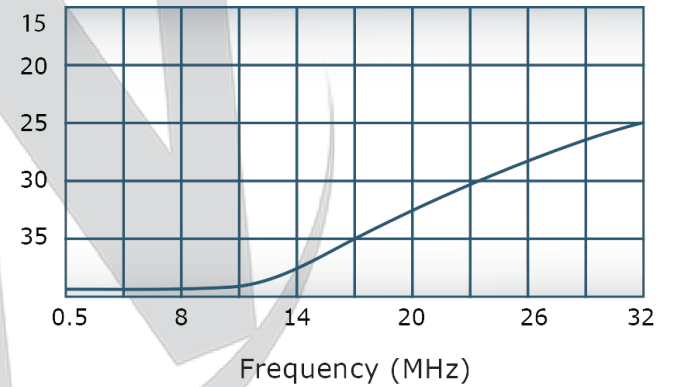
VSWR:



Insertion Loss:



Directivity:



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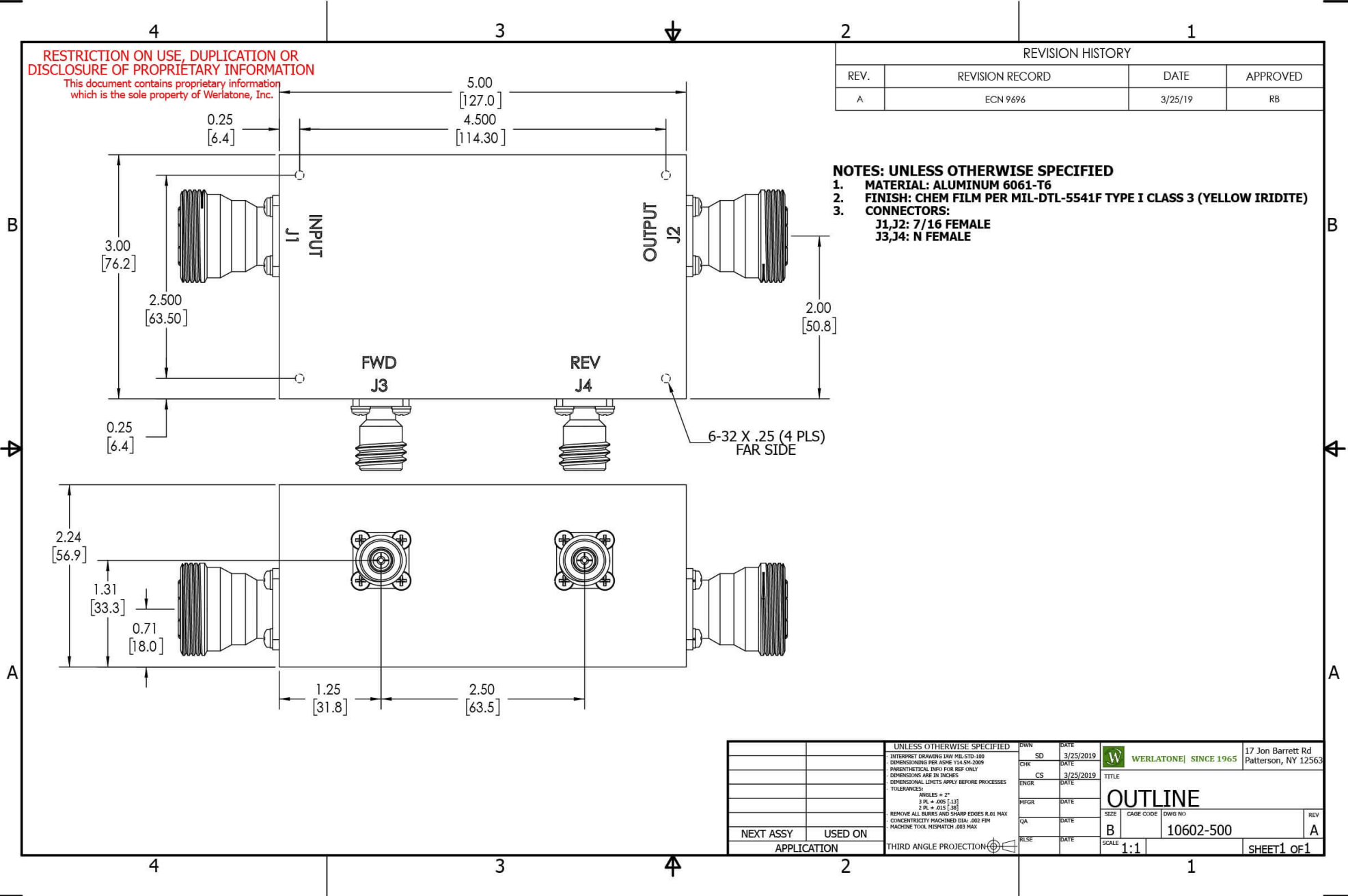
Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	3/25/19	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- 1. MATERIAL: ALUMINUM 6061-T6
 - 2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
 - 3. CONNECTORS:
 J1,J2: 7/16 FEMALE
 J3,J4: N FEMALE



UNLESS OTHERWISE SPECIFIED	DWN	DATE	17 Jon Barrett Rd
INTERPRET DRAWING IN ACC. WITH MIL-STD-100	SD	3/25/2019	Patterson, NY 12563
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	
PARENTHEetical INFO FOR REF ONLY	CS	3/25/2019	
DIMENSIONS ARE IN INCHES	ENGR	DATE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	
TOLERANCES:	QA	DATE	
ANGLES ± 2°	RLSE	DATE	
3 PL ± .005 (.13)			
2 PL ± .015 (.38)			
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
CONCENTRICITY MACHINED DIA: .002 FIM			
MACHINE TOOL MISMATCH .003 MAX.			

NEXT ASSY	USED ON	SCALE	1:1
APPLICATION	THIRD ANGLE PROJECTION		

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