



PRODUCT DATA SHEET

C7530

3-Port Uni-Directional Coupler: Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 300 - 3000 MHz
Power: 100 W CW
Coupling: 20 ± 1.0 dB Max.
Insertion Loss: 0.35 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 18 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: 3.7 x 2.0 x 0.75"
Weight: 0.5 lbs.

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C7530-10	N Female	N Female	N Female
C7530-12	N Female	N Female	SMA
C7530-102	SMA	SMA	SMA

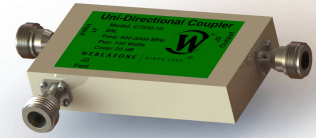
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C7530

Connectorized Directional Couplers

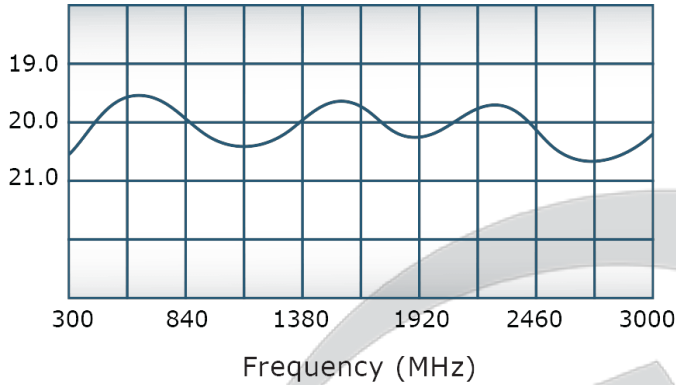


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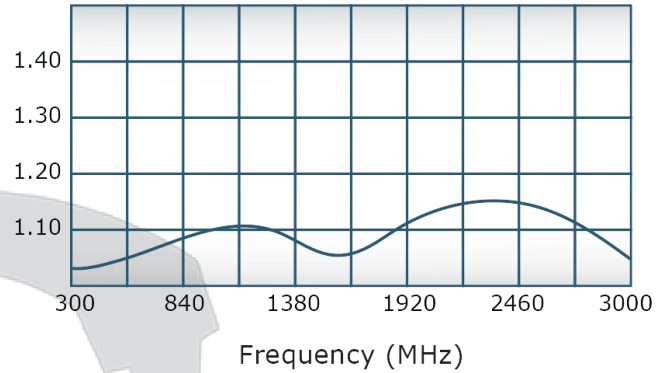
C7530

Performance Data (Specifications subject to change without notice):

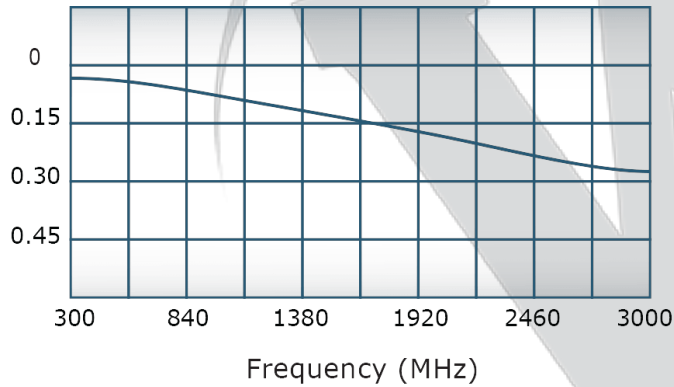
Coupling:



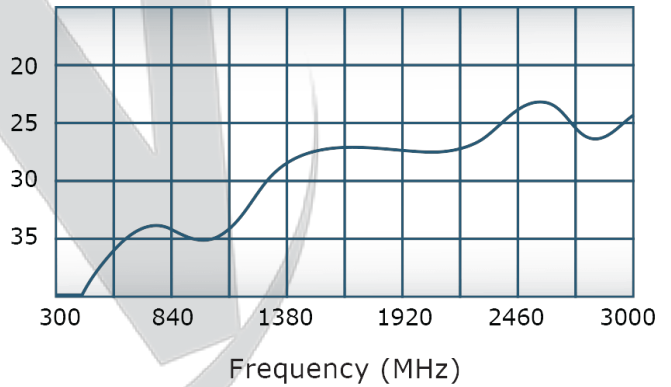
VSWR:



Insertion Loss:



Directivity:



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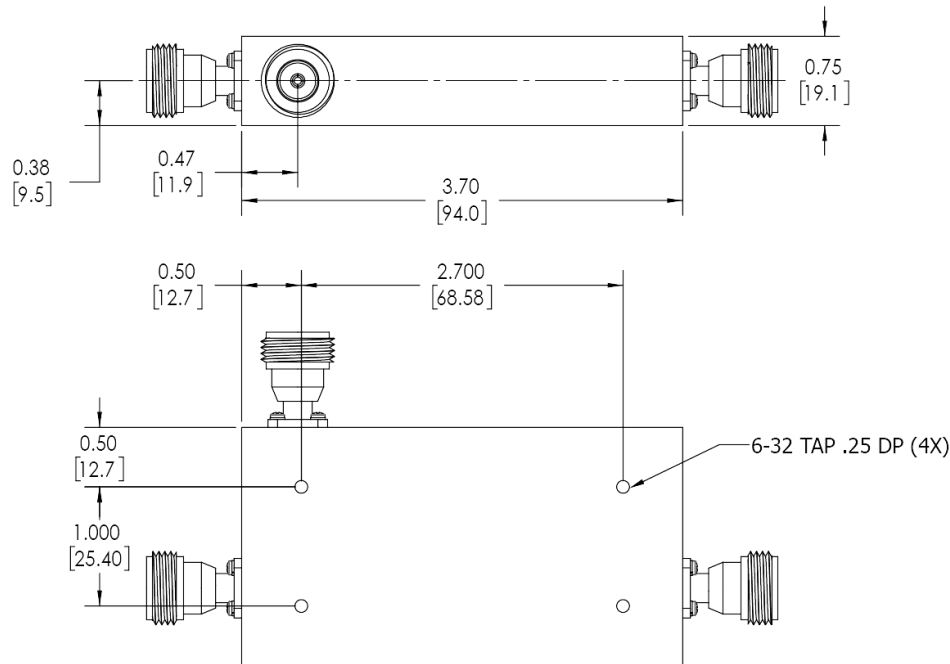
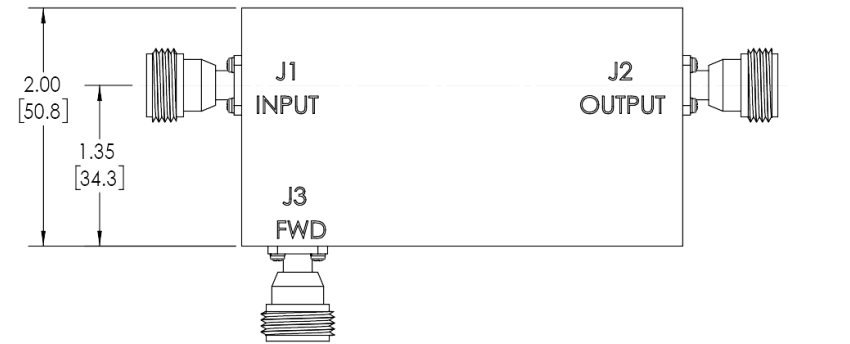
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	7/6/2020	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:
J1-J3: N FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	7/6/2020		
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE	
PARENTHESES FOR REF ONLY		CS	7/6/2020		
DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 20178-500	
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE		
TOLERANCES:		QA	DATE	REV A	
ANGLES ± 2° 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 FIM		RLSE	DATE		
THIRD ANGLE PROJECTION		SCALE		SHEET 1 OF 1	
APPLICATION		1:1		1	

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