



PRODUCT DATA SHEET

C7353

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:	1 - 500 MHz
Power:	1000 W CW
Coupling:	40 ± 1.0 dB Max.
Insertion Loss:	0.3 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.20:1 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:	6.0 x 2.2 x 2.2"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7353-10	N Female	N Female	N Female	N Female
C7353-12	N Female	N Female	SMA	SMA
C7353-13	N Female	N Female	BNC	BNC
C7353-20	7/16 Female	7/16 Female	N Female	N Female
C7353-22	7/16 Female	7/16 Female	SMA	SMA
C7353-43	SC Female	SC Female	SMA	SMA
C7353-622	7/16 Female	7/16 Male	SMA	SMA
C7353-627	7/16 Female	7/16 Male	N Female	N Female

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 C7353

Connectorized Directional Couplers

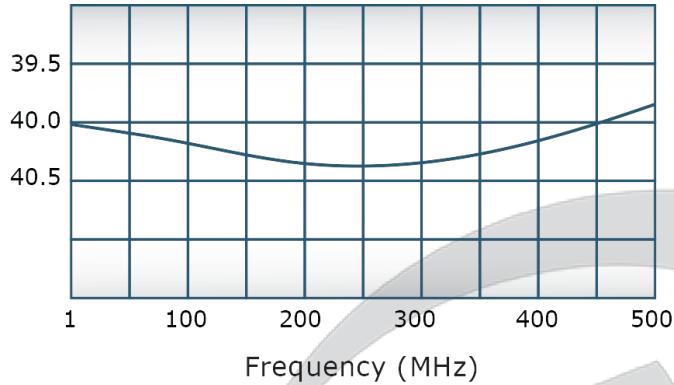


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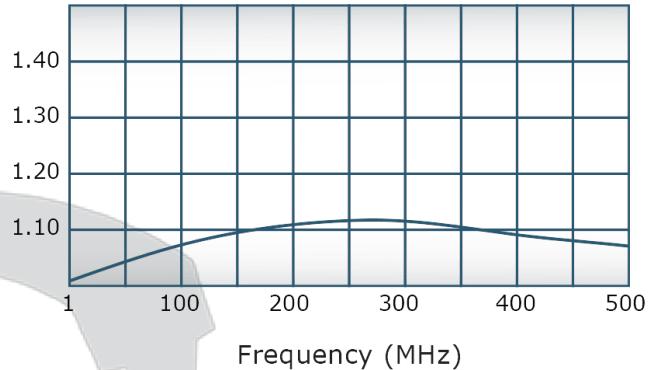
C7353

Performance Data (Specifications subject to change without notice):

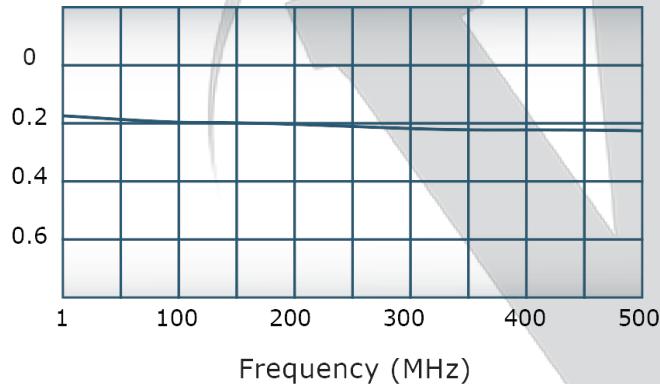
Coupling:



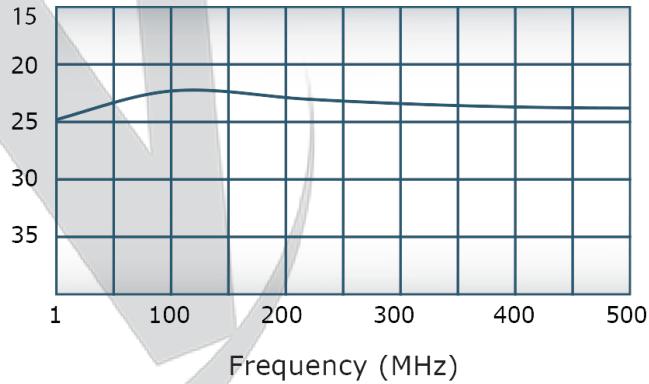
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 3334	6/25/03	RH
B	ECN 4036	8/18/06	MJ
C	ECN 8543	1/31/2014	SC
D	ECN 8618	4/2/2014	SC
E	ECN 9696	5/14/2019	RB

B

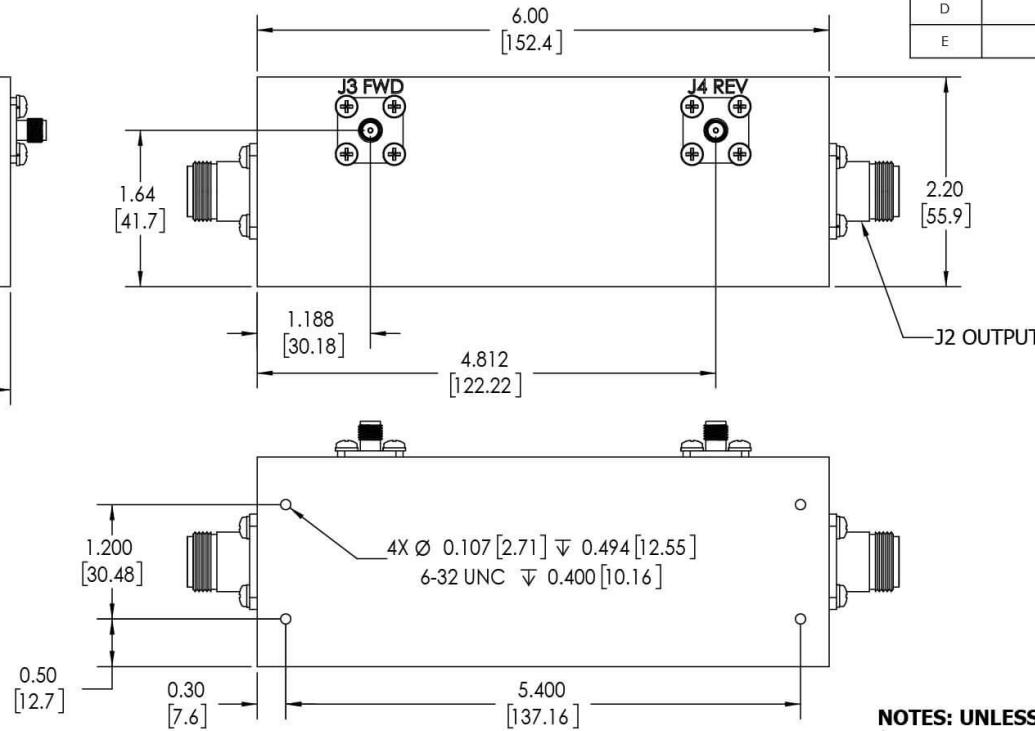
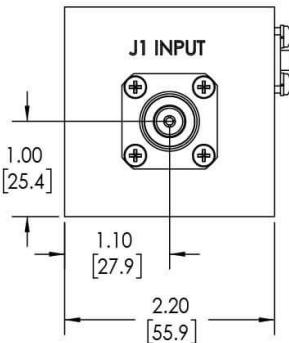
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NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1-J2: N FEMALE
J3-J4: SMA FEMALE

UNLESS OTHERWISE SPECIFIED	DN	DATE	SD	DATE	17 Jon Barrett Rd
INTERPRET DRAWING JAW MIL-STD-100 DRAWING NUMBER AS PER J14-SM-2009	W	5/14/2019	CHK	5/14/2019	WERLATONE SINCE 1965
PARENTHETICAL TOLERANCE FOR REFERENCE ONLY	CS	5/14/2019	ENGR	5/14/2019	TITLE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	MRGR	DATE			17 Jon Barrett Rd Patterson, NY 12563
TOLERANCES	QA	DATE			
ANGLES $\pm 2^\circ$ 3 RL ± 0.012 [0.30] 2 RL ± 0.012 [0.30]	ILSE	DATE			
REMOVE ALL BURRS AND SHARP EDGES R0.1 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX					
NEXT ASSY	USED ON	APPLICATION	OUTLINE	SIZE	REV
		THIRD ANGLE PROJECTION	B	10914-500	E
			SCALE	1:1.25	SHEET 1 OF 1

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