



## PRODUCT DATA SHEET

C6137

**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: 100 - 500 MHz  
Power: 50 W CW  
Coupling:  $30 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.75$  dB Max.  
Insertion Loss: 0.25 dB Max.  
VSWR (ML): 1.25:1 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 2.0 x 1.87"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6137-10	N Female	N Female	N Female	N Female
C6137-12	N Female	N Female	SMA	SMA
C6137-13	N Female	N Female	BNC	BNC
C6137-102	SMA	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 C6137

Connectorized Directional Couplers

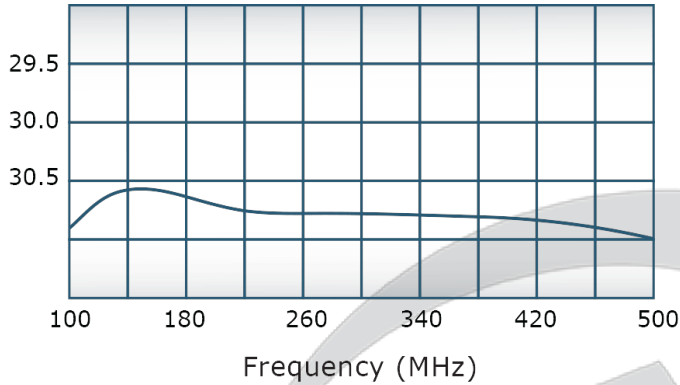


## PRODUCT DATA SHEET

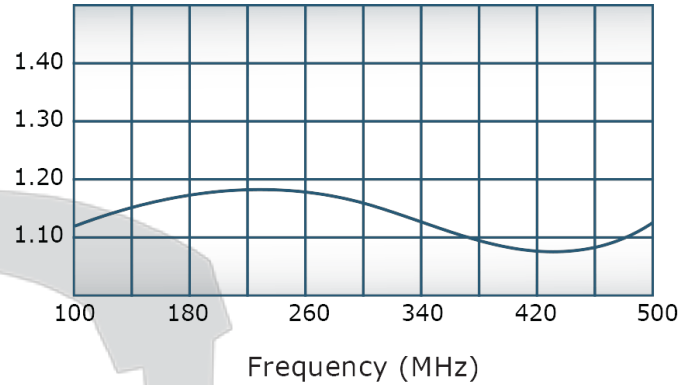
C6137

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

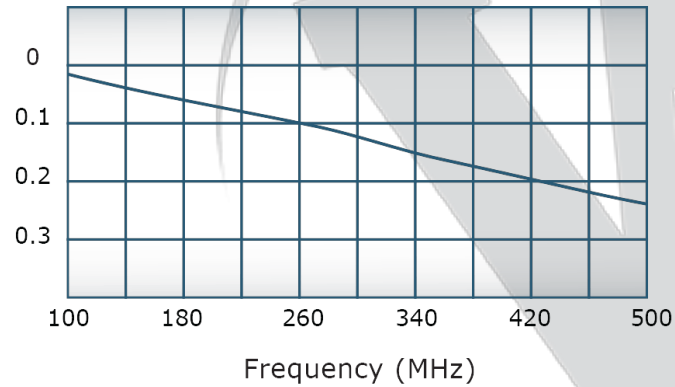
Coupling:



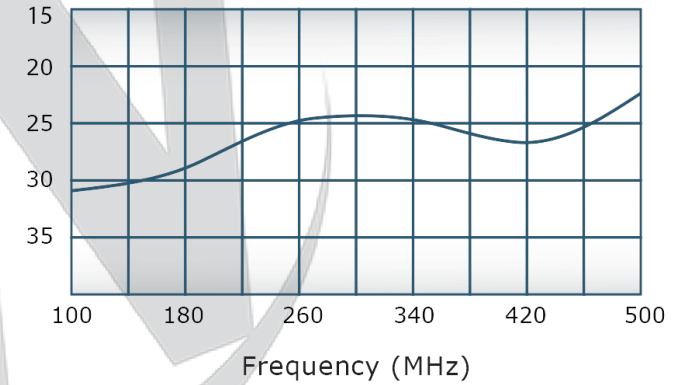
VSWR:



Insertion Loss:



Directivity:



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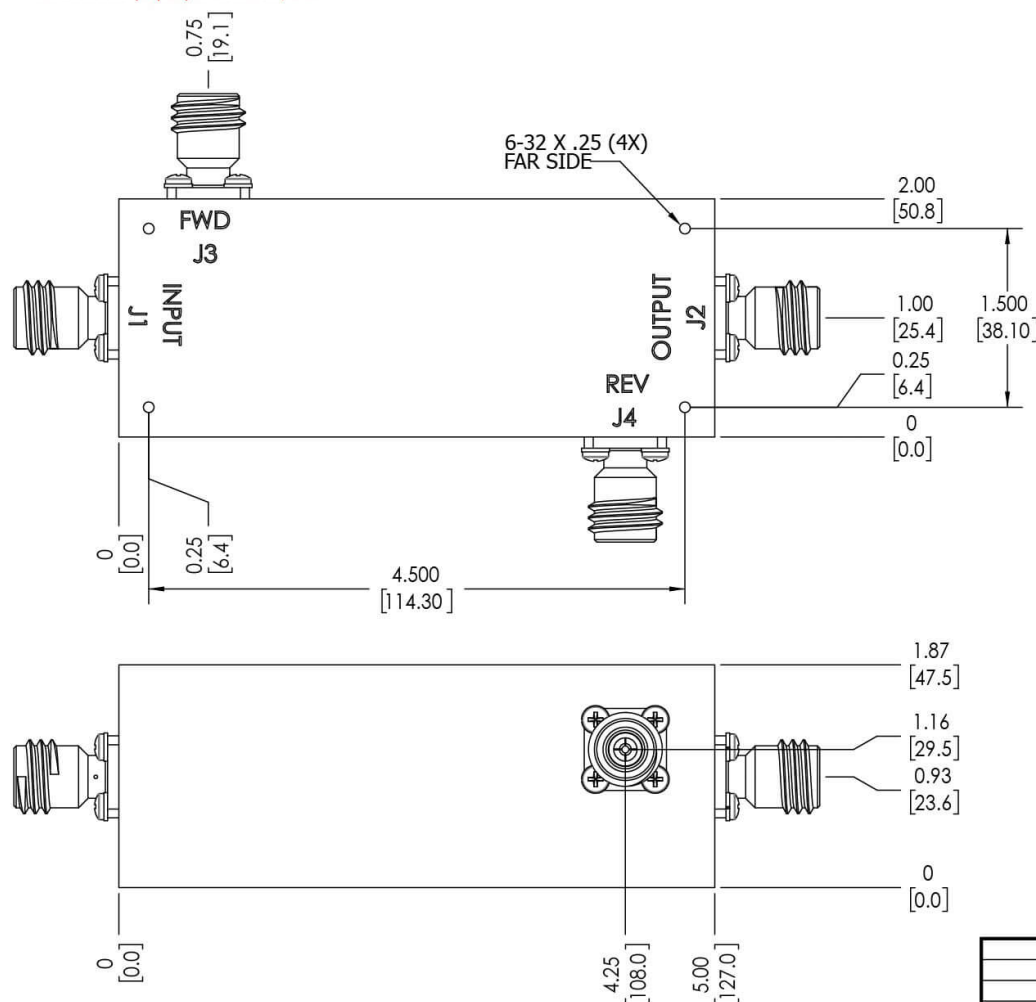
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/14/2019	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-J4: N FEMALE



UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN ACCORDANCE WITH DIMENSIONS FOR PER ASME Y14.5-2009 PARENT/CHILD DIMS FOR BEST ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES = $\pm 0.005$ 3 PL. $\pm 0.005$ [13] 2 PL. $\pm 0.015$ [30] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. $\pm 0.02$ PAK MACHINE TOOL RESTRICTION .001 MAX		DWN DATE 5/14/2019 SD DATE CHR DATE CS DATE 5/14/2019 ENGR DATE REGR DATE QA DATE RLSE DATE	 <b>WERLATONE SINCE 1965</b> TITLE <h1>OUTLINE</h1> SIZE CAGE CODE DWG NO <div>10026-505</div> SCALE 1:1 SHEET 1 OF 1	17 Jon Barrett Rd Patterson, NY 12563
NEXT ASSY USED ON APPLICATION	THIRD ANGLE PROJECTION			A

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