

## PRODUCT DATA SHEET

C5263

**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: 80 -220 MHz  
Power: 3000 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.1 dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
VSWR (ML): 1.10:1 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: 3.0 x 3.0 x 1.09"

### Connector Configurations:

| Model      | Input (J1)  | Output (J2) | Fwd (J3) | Rev (J4) |
|------------|-------------|-------------|----------|----------|
| C5263-10   | N Female    | N Female    | N Female | N Female |
| C5263-12   | N Female    | N Female    | SMA      | SMA      |
| C5263-20*  | 7/16 Female | 7/16 Female | N Female | N Female |
| C5263-22*  | 7/16 Female | 7/16 Female | SMA      | SMA      |
| C5263-23*  | 7/16 Female | 7/16 Female | BNC      | BNC      |
| C5263-43   | SC Female   | SC Female   | SMA      | SMA      |
| C5263-627* | 7/16 Female | 7/16 Male   | N Female | N Female |
| C5263-727* | 7/16 Male   | 7/16 Female | N Female | N Female |
| C5263-728* | 7/16 Male   | 7/16 Female | SMA      | SMA      |

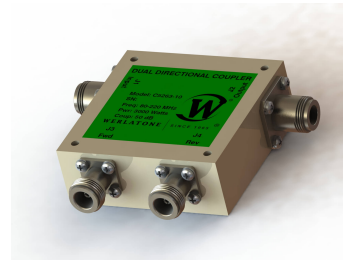
\*Starred options are 3.0 x 3.0 x 1.59"



# WERLATONE

Model C5263

Connectorized Directional Couplers

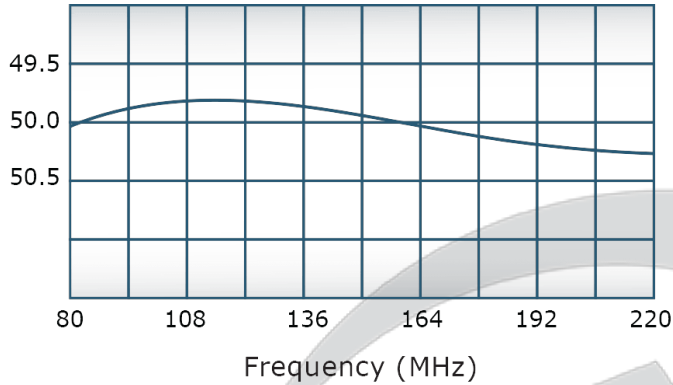


## PRODUCT DATA SHEET

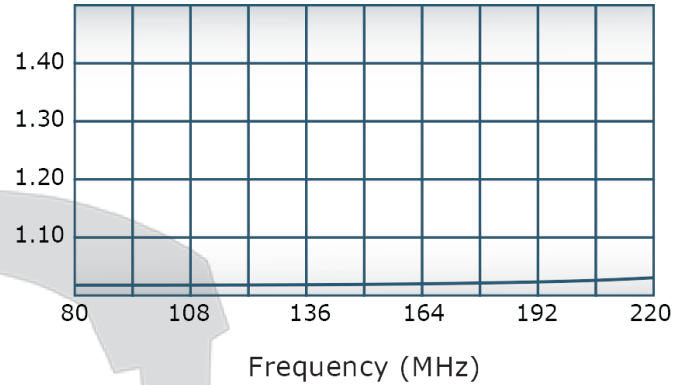
C5263

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

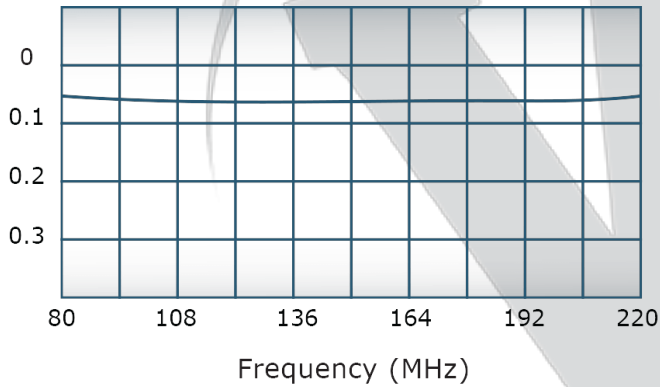
Coupling:



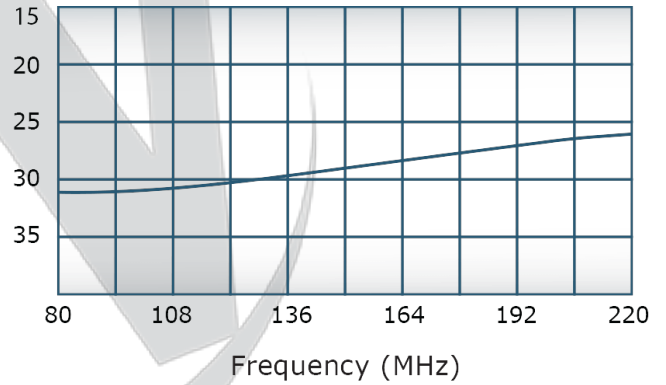
VSWR:



Insertion Loss:



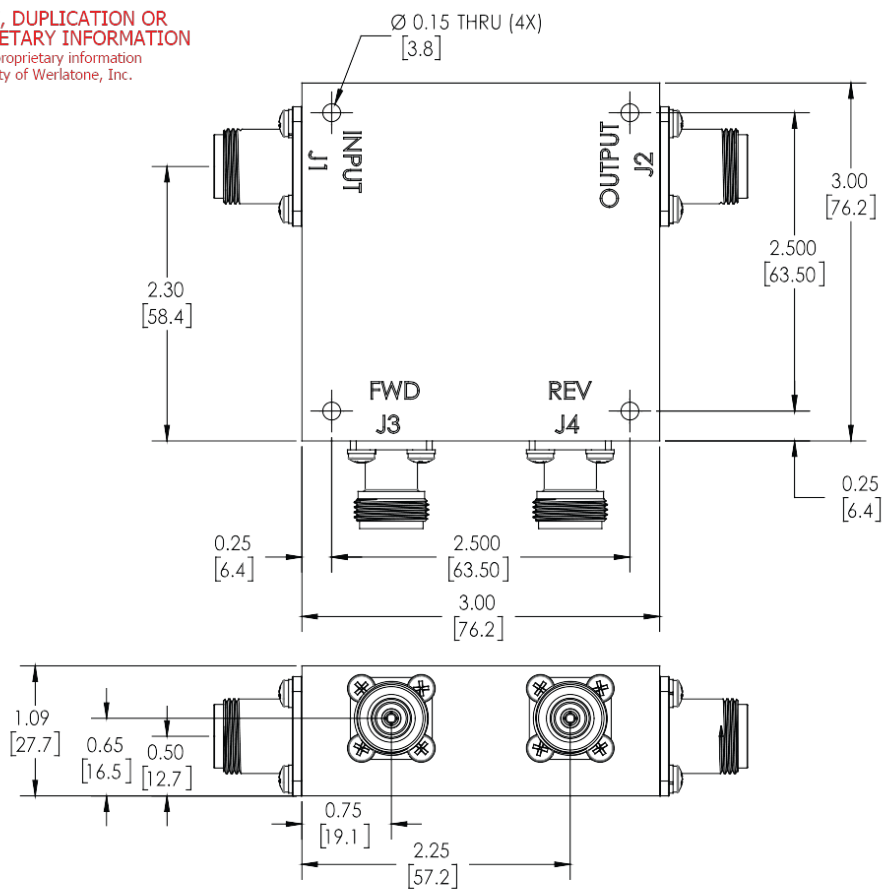
Directivity:



**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of 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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
This document contains proprietary information which is the sole property of Werlatone, Inc.



## REVISION HISTORY

| REV. | REVISION RECORD | DATE     | APPROVED |
|------|-----------------|----------|----------|
| A    | ECN 9696        | 11/27/18 | RB       |

**NOTES: UNLESS OTHERWISE SPECIFIED**

1. MATERIAL: ALUMINUM 6061-T6  
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)

|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  |      |          |                                                                                                            |                                                                                                            |              |  |
|-------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|----------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|--|
|             |  | UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                                                                                                                                                                                             |  | OWN  | DATE     |  WERLATONE SINCE 1965 | 17 Jon Barrett Rd<br>Patterson, NY 12568                                                                   |              |  |
|             |  | • INTERPRET DRAWING AS PER: STD-100<br>• DIMENSIONING PER ASME Y14.5-2009<br>• ARCHITECTURAL INFO FOR KEY ONLY<br>• DIMENSIONS ARE IN INCHES<br>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES<br>• TOLERANCES:<br>ANGLES: ± 2°<br>2 PL. ± .002 [13]<br>3 PL. ± .015 [38]<br>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX<br>• CONCENTRICITY MACHINED DIA. .002 FIM<br>• MACHINE TOOL DEFORMATION .002 FIM |  | RH   | 7/5/2001 |                                                                                                            |  WERLATONE SINCE 1965 |              |  |
|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  | CHK  | DATE     |                                                                                                            |                                                                                                            |              |  |
|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  | ENGR | DATE     |                                                                                                            |                                                                                                            |              |  |
|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  | MD   | 7/5/2001 |                                                                                                            |                                                                                                            |              |  |
|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  | APPR | DATE     | OUTLINE                                                                                                    |                                                                                                            |              |  |
|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  | QA   |          | SIZE                                                                                                       | CAGE CODE                                                                                                  | DWG NO       |  |
|             |  |                                                                                                                                                                                                                                                                                                                                                                                                        |  |      |          | 10379-505                                                                                                  |                                                                                                            |              |  |
| NEXT ASSY   |  | USED ON                                                                                                                                                                                                                                                                                                                                                                                                |  | RLSE | DATE     | SCALE<br>1:1                                                                                               |                                                                                                            | SHEET 1 OF 1 |  |
| APPLICATION |  | THIRD ANGLE PROJECTION                                                                                                                                                                                                                                                                                            |  |      |          |                                                                                                            |                                                                                                            |              |  |

**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of 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