WERLATONE

Model C7753
Connectorized Directional Couplers



PRODUCT DATA SHEET **C7753**

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled
line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency:	700 - 4200 MHz
Power:	100 W CW, 1 kW Peak
Coupling:	20 ± 1.0 dB Max.
Insertion Loss:	0.35 dB Max.
Flatness:	± 1.0 dB Max.
VSWR (ML):	1.25:1 Max.
Directivity:	18 dB Min.

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Suface 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:	1.8 x 1.0 x 0.59''
Weight:	2.1 ounces / 59 grams

Connector Configurations:

Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C7753-102	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.

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

Werlatone, Inc.All Rights Reserved

WERLATONE

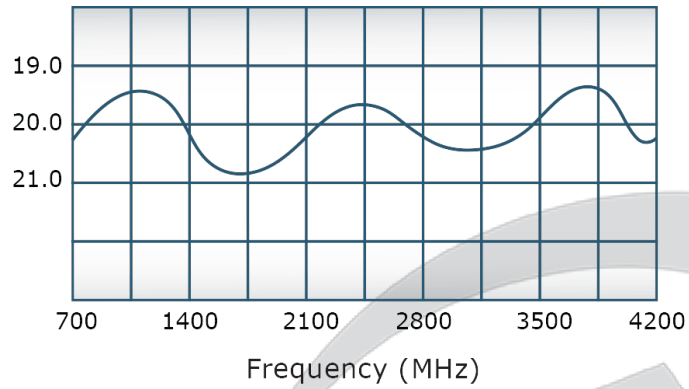
Model C7753
Connectorized Directional Couplers



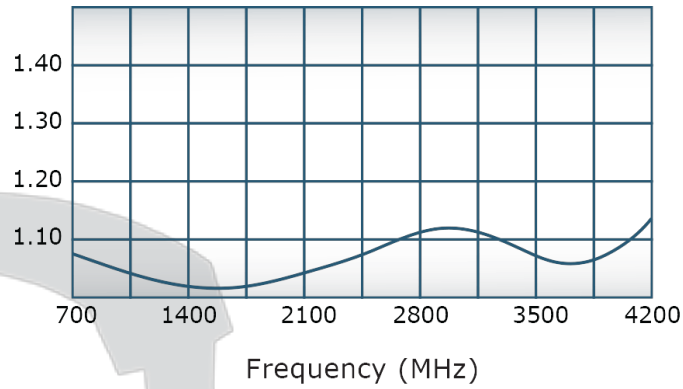
PRODUCT DATA SHEET **C7753**

Performance Data (Specifications subject to change without notice):

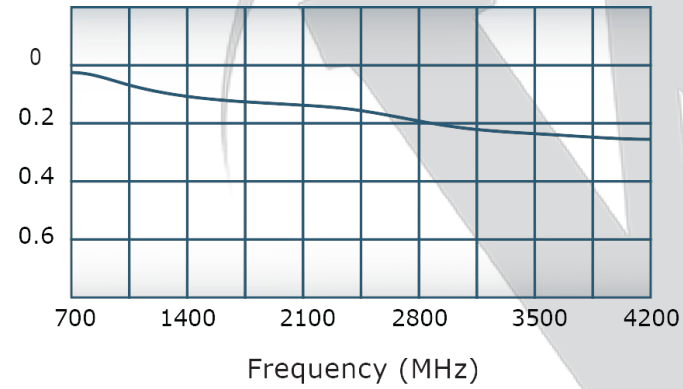
Coupling:



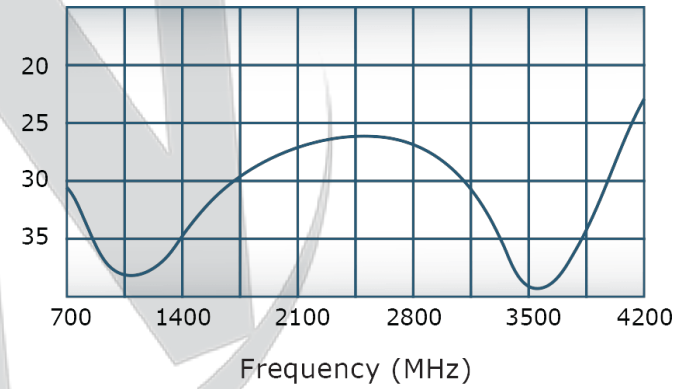
VSWR:



Insertion Loss:



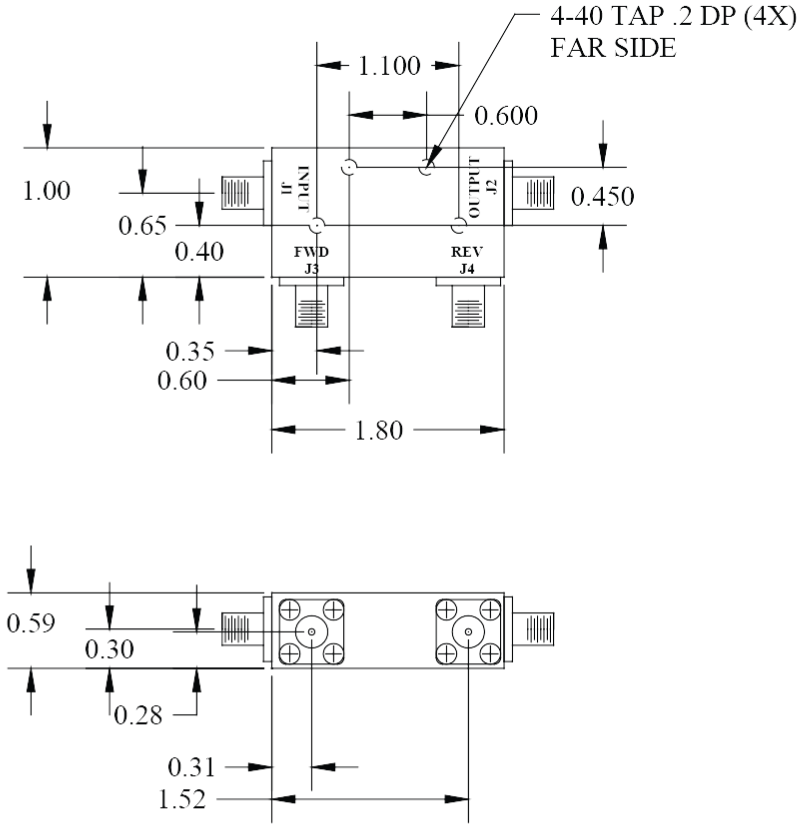
Directivity:



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

Werlatone, Inc.All Rights Reserved

DATE	SYM	REVISION RECORD	AUTH	DR	CK



TOLERANCE	WERLATONE INC.		
XX +/- .015 XXX +/- .005		SCALE	DRAWN BY : NH APPVD BY:
	TITLE : OUTLINE		
	DATE 08/04/06	DRAWING NO: 20251-500	

THIS DRAWING CONTAINS INFORMATION
PROPRIETARY TO WERLATONE INC. AND
MAY NOT BE USED OR COPIED WITHOUT
THE WRITTEN CONSENT OF WERLATONE INC.

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