

**TECHNICAL DESCRIPTION**

**FEATURES**

- 2.0 - 3.0 GHz
- LOW LOSS
- HIGH DIRECTIVITY
- EXCELLENT COUPLING ACCURACY
- SURFACE MOUNT

**APPLICATIONS**

- WCDMA BASE STATION RF SUBSYSTEMS
- SATCOM
- MMDS
- WLAN



**RoHS Compliant**

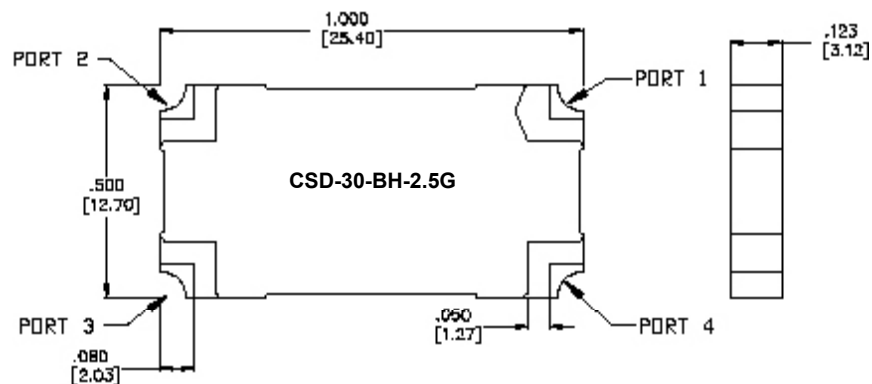
The Multi-Mix® CSD series provides a 30 dB coupling with low insertion loss, low VSWR, and high directivity. Accurate coupling factors make this series ideal for use in power amplifiers and RF signal distribution and processing equipment.

CSD - 30 directional couplers are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

**GENERAL SPECIFICATIONS**

FREQUENCY RANGE (MHz)	INSERTION LOSS (dB MAX.)	MEAN COUPLING (dB)	VSWR (MAX, ALL PORTS)	
2000 - 3000	0.13	30 ± 1.8	1.22:1	
FREQUENCY SENSITIVITY (dB MAX.)	DIRECTIVITY (dB MIN.)	AVERAGE POWER (WATTS, MAX.)	RF INTERFACE	OPERATING TEMPERATURE
± 0.75	14	450	Leadless Surface Mount	-55° to +85° C

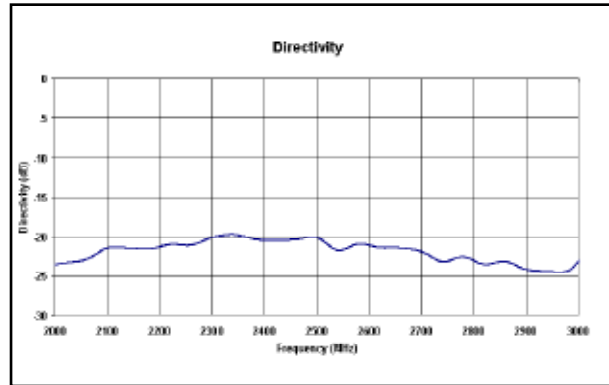
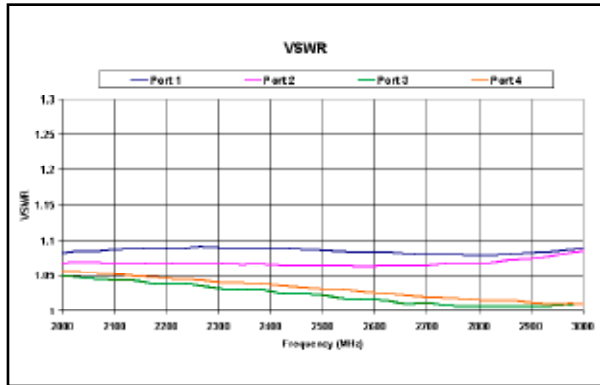
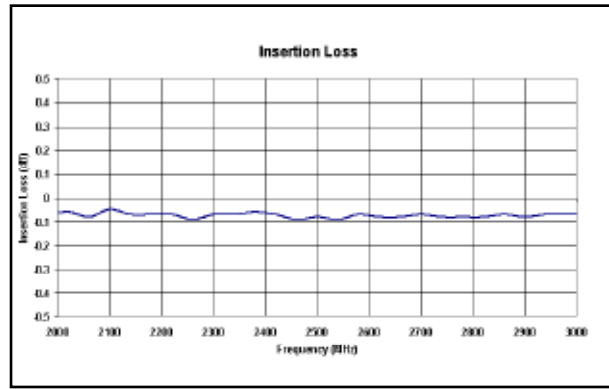
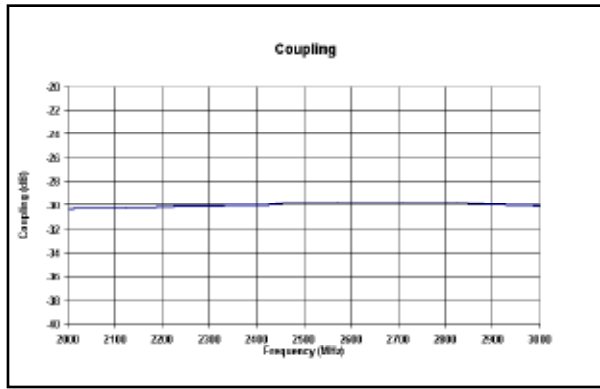
**PACKAGE OUTLINE**



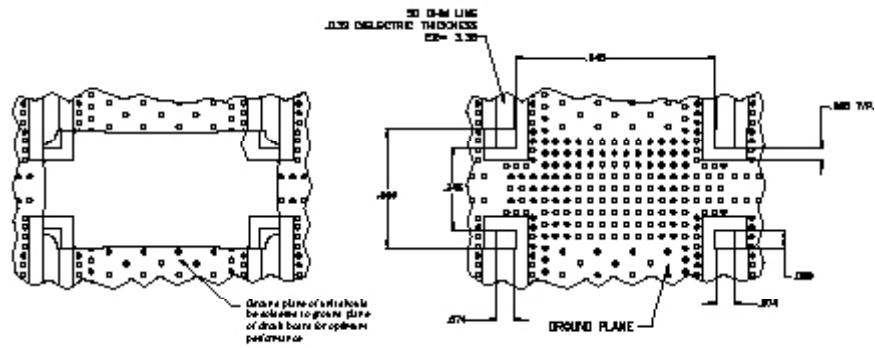
**THE MULTI-MIX MICROTECHNOLOGY® GROUP IS ISO 9001:2000 REGISTERED**

U.S. Patent 6,099,677 and other Patents Pending.

**TYPICAL PERFORMANCE**



**MOUNTING CONFIGURATION**



**TRUTH TABLE**

	1	2	3	4
1	Input	Output	Isolated	Coupled
2	Output	Input	Coupled	Isolated
3	Isolated	Coupled	Input	Output
4	Coupled	Isolated	Output	Input