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4

3

2

1

2X TYPE N FEMALE

1.200 [30.48] TYP

6.000 [152.40]

INPUT

FWD

REV

OUTPUT

.560 [14.22] TYP

## SPECIFICATIONS

FREQUENCY RANGE: 1-500 MHz

POWER: 1000 Watts CW

INSERTION LOSS: 0.30dB MAX.

VSWR: 1.20:1 MAX.

FLATNESS:  $\pm 0.50$ dB MAX.

DIRECTIVITY: 20dB MIN.

COUPLING: 40dB

1.000 [25.40]

4.000 [101.60]

2X SMA FEMALE

.500 [12.70] TYP

2.200 [55.88]

1.000 [25.40] TYP

4X 6-32UNC THD  
.400 DEEP5.400 [137.16]  
TYP.300 [7.62]  
TYP

1.200 [30.48] TYP

MATERIAL:

DRAWN:

Paiboon Luekhamhan

DATE:

09-13-2006

APPROVED:

T. Nguyen

DATE:

09-13-2006

**MCLI**MICROWAVE COMMUNICATIONS LABORATORIES INC.  
7255 30TH AVE. N. SAINT PETERSBURG, FL 33710  
TEL: (727) 344-6254 FAX: (727) 381-6116  
http://WWW.MCLI.COM

SCALE:

N/A

SHEET:

N/A

UNLESS OTHERWISE SPECIFIED:  
TOLERANCES  
IN (INCHES) OR [mm] (MILLIMETERS)  
FRACTIONS:  $\pm 1/64$   
DECIMALS:  $\pm 0.01 \pm 0.005$   
ANGLE:  $\pm 1/2^\circ$ PROPRIETARY NOTICE:  
THE INFORMATION IN THIS DRAWING IS PROPRIETARY  
AND SHALL NOT BE USED OR DISCLOSED WITHOUT WRITTEN  
PERMISSION FROM MICROWAVE COMMUNICATIONS  
LABORATORIES INC. (MCLI)

DRAWING TITLE:

HIGH POWER DUAL DIRECTIONAL COUPLER

PART NO.

HDL-27-40

CAGE CODE:

0D2L5

SIZE:

C

REV:

N/A

DWG NO.

82657

DO NOT SCALE THE DRAWING