

NOTES:

1.0 ELECTRICAL SPECIFICATIONS:

1.1 FREQUENCY RANGE: 2.0 to 4.0 GHz

1.2 BALANCE:

1.2.1 AMPLITUDE BALANCE: $\pm 0.5\text{dB}$ MAX.

1.2.2 PHASE BALANCE: $\pm 10^\circ$ MAX.

1.3 ISOLATION: 22dB MIN.

1.4 VSWR: 1.35:1

1.5 INSERTION LOSS: 0.7dB MAX.

1.6 INPUT POWER:

AVERAGE: 30 WATTS

PEAK: 3 KILOWATTS

1.7 WEIGHT: 1.5 Oz (38 GRAMS)

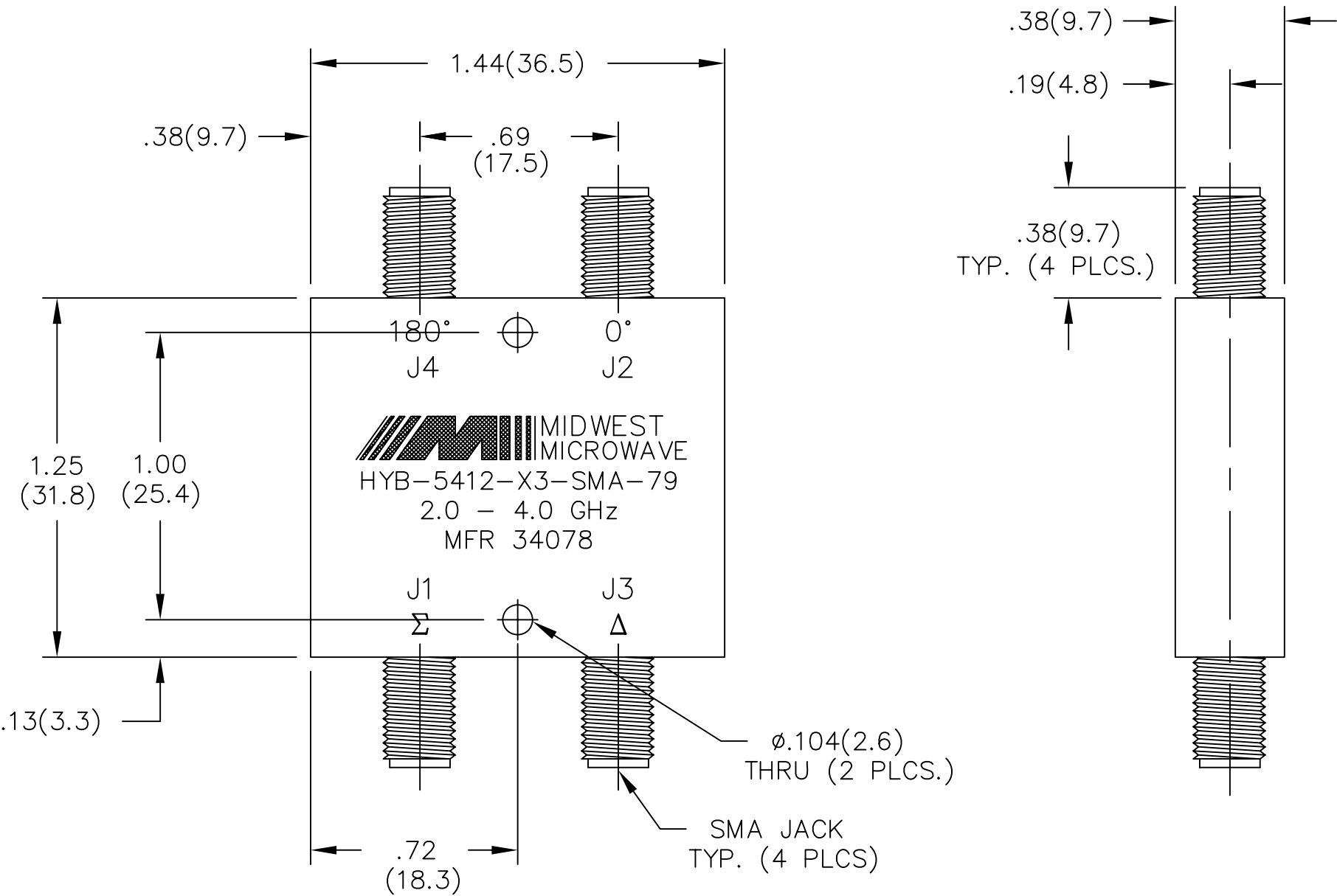
2.0 WHEN POWER IS APPLIED TO THE SUM Σ (J1) PORT, THE POWER IS DIVIDED EQUALLY BETWEEN THE 180° (J4) AND THE 0° (J2) PORTS AND THE SIGNALS AT THE OUTPUT PORTS J2 AND J4 ARE BOTH IN PHASE.

3.0 WHEN POWER IS APPLIED TO THE DIFFERENCE Δ (J3) PORT, THE POWER IS DIVIDED EQUALLY BETWEEN THE 180° (J4) AND THE 0° (J2) PORTS, AND THE SIGNALS AT THE OUTPUT PORTS J2 AND J4 ARE BOTH 180° OUT OF PHASE.

4.0 FINISHING:
GREY OVER MIL-E-15090 TYPE II,
CLASS 2 OVER MIL-C-5541 CLASS 3A
MEETS MIL-E-16400
MEETS MIL-E-5400

5.0 DIMENSIONS IN PARENTHESIS ARE IN MILLIMETERS.

6.0 MARKING: MARK UNIT AS SHOWN
(REF.: SLK-08054-82-01)



MODEL NUMBER
HYB-5412-X3-SMA-79

REV.
A

REV.	DESCRIPTION	DATE
-	RELEASED	5/21/98
A	ECN 19453	10/30/03

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE: 3 PLACE DECIMALS $\pm .005$ 2 PLACE DECIMALS $\pm .02$ FRACTIONS $\pm 1/64$ PARALLELITY: T.I.R. _____ FLATNESS: T.I.R. _____ CONCENTRICITY: T.I.R. _____ ANGLES AND PERPENDICULARITY: $\pm 1^\circ$		FSCM NO. 34078	MIDWEST MICROWAVE	
		NOTICE: The information contained in this drawing is proprietary and must not be used without the permission of Midwest Microwave		TITLE HYBRID COUPLER
DRAWN/DATE L.BROWN 9/16/97		ENG./DATE J.O'NEIL 5/19/98		DRAWING NUMBER HYB-5412-X3-SMA-79
CHECKED/DATE		APPROVED/DATE		SCALE: 2=1 SHEET 1 of 1