

5

4

3

2

1

ELECTRICAL

FREQUENCY RANGE _____ 10 - 50 GHz

VSWR
 INPUT _____ 1.60:1 TYP. 2.0:1 MAX.
 OUTPUTS _____ 1.70:1 TYP. 2.0:1 MAX.

INPUT POWER _____ 10 WATTS @ 25°C
 (ASSUMES OUTPUT MATCH OF 2.0:1 OR BETTER. DERATES LINEARLY TO 10% WITH ARBITRARY LOAD)

IMPEDANCE _____ 50 OHMS

INSERTION LOSS
 10-40 GHz _____ 1.8 dB TYP. 2.0 dB MAX.
 40-50 GHz _____ 2.5 dB MAX

ISOLATION _____ 15 dB MIN.

PHASE _____ 10° MAX.
 (BETWEEN OUTPUT PORTS)

AMPLITUDE BALANCE _____ 1.0 dB MAX.
 (BETWEEN OUTPUT PORTS)

OPERATING TEMP RANGE _____ -54°C TO +125°C

MECHANICAL

2.4mm CONNECTORS - FEMALE/JACK

CONTACTS _____ GOLD PLATED BERYLLIUM COPPER

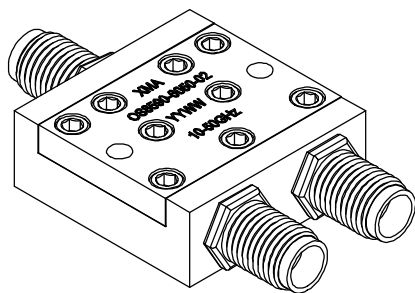
CONNECTOR HOUSING _____ PASSIVATED STAINLESS STEEL

CIRCUIT CASE _____ ALUMINUM ALLOY W/ CHEMICAL
 CONVERSION COAT PER MIL-DTL-5541,
 TYPE II, CLASS 1A

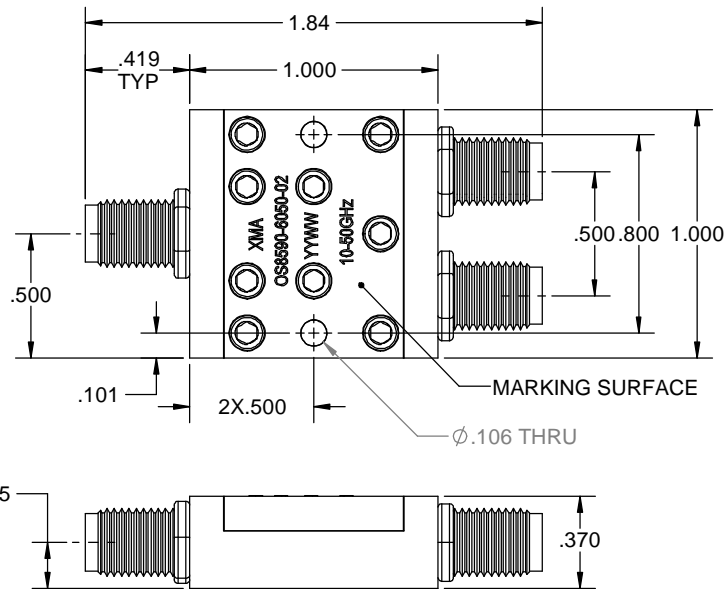
RoHS COMPLIANT DEVICE

MARKING

PART LOOKS LIKE PRODUCT IMAGE SHOWN.
 PART MARKING ORIENTATION AND FORMAT AS SHOWN.
 MARKING TO BE AS LARGE AS POSSIBLE BE, CLEAR, READABLE.
 YYWW EQUALS DATE CODE



REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
X1	PRELIMINARY RELEASE	17-NP001	7/20/16	T.KUHN
X2	UPDATED TO SOLIDWORKS	17-NP001	9/13/17	T.KUHN
X3	ADDED MARKING	17-NP001	11/20/17	T.KUHN
X4	REVISED INSERTION LOSS	17-NP001	5/8/18	T.KUHN



QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
X	OS8590-6050-02	POWER DIVIDER, 2-WAY, 10-50 GHz, 2.4mm, 10W	
1	TA-OS8590-6050-02U	ASSY, POWER DIVIDER, 2-WAY, 10-50 GHz, 2.4mm, 10W, UNMARKED	1

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000

DIMENSIONS ARE IN INCHES AND APPLY BEFORE / AFTER PROCESSING

SURFACE ROUGHNESS μ INCHES **63**

FINISH:

SEE NOTES

MATERIAL: _____

SEE NOTES

NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.

INTERPRET IAW ANSI Y14.5-1982

UNLESS OTHERWISE SPECIFIED TOLERANCES IN:

DECIMALS	INCH	(MM)
.X*	.05"	[1.27]
.XX*	.03"	[.76]
.XXX*	.010"	[.25]

ANGLES $\pm 0^{\circ}30'$

REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED

DIAS CONCENTRIC <.003 T.I.R.

DO NOT SCALE PRINT

DRAWN DATE
T.KUHN 6/15/13

CHECKED DATE
A.GAGNE 6/15/13

ENG. APPR. DATE
T.KUHN 6/15/13

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP. OR OMNI SPECTRA AND SHALL NOT BE REPRODUCED, COPIED NOR USED - IN WHOLE OR IN PART - AS A BASIS FOR THE MANUFACTURE OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS WRITTEN PERMISSION OF XMA CORP.

Phone: 603-222-2256 Fax: 603-222-2259
 150 Dow Street, Manchester, NH 03101

TITLE
POWER DIVIDER, 2-WAY, 10-50 GHz, 2.4mm, 10W

SIZE	CAGE CODE	DRAWING NUMBER	REV
B	3HT76	OS8590-6050-02	X4

SCALE _____ PLATED AREA SQ. IN _____ SHEET **1** OF **1**

5

4

3

2

1