

PRODUCTION
RELEASE

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION
INTERPRET IAW ANSI Y14.5-1982

REV		DESCRIPTION	APPROVED
A		REVISED FIN NOTES & TOLS.	01/14/2011 D. Saunders

SPECIFICATIONS

INPUT POWER (AVG.) 100 WATTS
IMPORTANT - HIGHER POWER MAY RESULT IN DAMAGE TO UNIT.

INPUT MAX. PEAK POWER 2,500 W

<5 μ SEC. PW, <0.25% DUTY CYCLE

POWER DERATES TO 10% @ +125°C AMBIENT FROM 25°C

Power handling best with unit mounted to allow for free air convection, unrestricted by close adjacent obstacles.

HEAT SINK THERMAL RISE (CALCULATED) 0.88°C/Watt

WEIGHT (MAX.) 3.4 LBS. (1.6 kg)

TEMPERATURE RANGE -55°C TO +125°C

MATERIALS:

CONNECTORS (COMPLY WITH DIN 7/16 REQUIREMENTS):

HOUSING AND COUPLING NUTS ARE BRASS WITH SILVER PLATING.
CENTER CONTACTS ARE BERYLLIUM COPPER OR BRASS WITH SILVER PLATING

CASE IS ALUMINUM ALLOY WITH CHROMATE FINISH

HEAT SINKS ARE ALUMINUM ALLOY, BLACK ANODIZE FINISH

INTERNAL RESISTIVE ELEMENTS ARE EITHER BERYLLIUM OXIDE OR ALUMINUM
NITRIDE CERAMIC WITH THICK FILM AND/OR THIN FILM RESISTORS

ROHS COMPLIANT DESIGN

UNIT SUPPLIED WITH MOUNTING HOLES FOR BRACKET OR MOUNTING STANDOFFS

EVERY EFFORT IS MADE TO SHIP UNITS WITH HEAT SINK FINS STRAIGHT AND FULL
BLACK ANODIZE COVERAGE BUT SOME "WAVE" OR MINOR DEFLECTION FROM
PERPENDICULAR MAY BE PRESENT IN FINS AS WELL AS SMALL "FLAKE" AREAS OF
MISSING BLACK COVERAGE. FINS MAY BE STRAIGHTENED IF < APPROX. 15° AND
SHOULD ONLY BE A FEW OF THE FINS - NEVER ALL.

RF ELECTRICAL SPECIFICATIONS:

FREQ. DC - 2 GHz 2 - 4 GHz 4 - 6 GHz 6 - 7.5

VSWR (MAX.) 1.20:1 1.30:1 1.35:1 1.40:1
Typ. VSWR is <1.15 <1.24 <1.30 <1.33

Typical VSWR is not guaranteed but is an average of production runs.

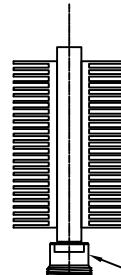
ORDERING INFORMATION

7601-7600-FQ-80 DIN 7/16 MALE INPUT

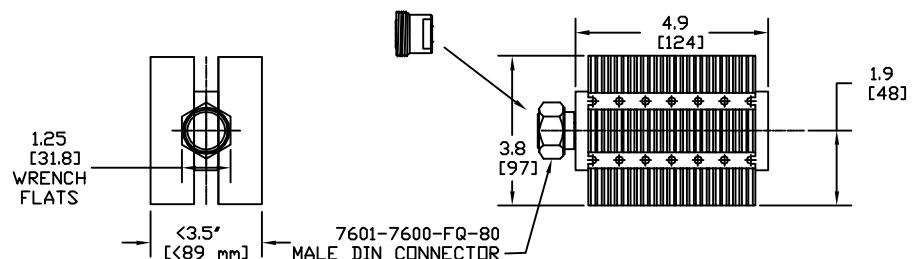
7602-7600-FQ-80 DIN 7/16 FEMALE INPUT

ALSO AVAIL. SMA, TNC, TYPE N CONNECTORS

TO DESIGNATE MAX. FREQUENCY UNIT DESIRED REPLACE "-FQ" WITH:
"-02" = 2.5 GHz; "-04" = 4 GHz; "-06" = 6 GHz; "-08" = 7.5 GHz



7602-7600-FQ-80
FEMALE DIN CONNECTOR



DRAWING PRACTICES PER ANSI Y-14.5 MIL-STD-100 & 100B		UNLESS OTHERWISE SPECIFIED APPROPRIATE TOLERANCES ON DECIMALS INCH MM	DRAWN D. SAUNDERS 01/14/2010 CHECKED	DATE 01/14/2010
FINISH	-.0000	-.0000	ENG D. SAUNDERS 01/14/2010	DATE 01/14/2010
SEE NOTES	-.0000	-.0000	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP / OMNI SPECTRA AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART AS A BASE FOR THE DESIGN OF OTHER EQUIPMENT OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS WRITTEN PERMISSION OF XMA CORP. CUSTOMERS AND VENDORS MAY COPY FOR INTERNAL REVIEW USE AS NEEDED	
MATERIAL	-.0000	-.0000		
SEE NOTES	-.0000	-.0000		

WWW.XMACorp.com Sales@XMACorp.com			
XMA Powered by Omni Spectra ®			
100 Watts Avg. Power			
DIN 7/16 Connector Load - Conv. Cooled			
SIZE	CAGE CODE	DWG NO.	
C	3HT76	760X-7600-FQ-80	
SCALE	10.4	PRINTING SPEC SCALE INCHES	XXX
			SHEET 1 OF 1