

PRODUCTION
RELEASE

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION.
INTERPRET IN ACCORDANCE WITH ASME Y14.5-2009

REVISIONS			APPROVED
REV	DESCRIPTION		
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 MIL-PRF-39012 & MIL-STD-348):

HOUSING AND COUPLING NUTS ARE STAINLESS STEEL 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 - 8 GHz 8 - 12 GHz

VSWR (MAX.) 1.20:1 1.30:1 1.35:1 1.40:1 1.50:1
Typ. VSWR is <1.15 <1.24 <1.30 <1.33 <1.41

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

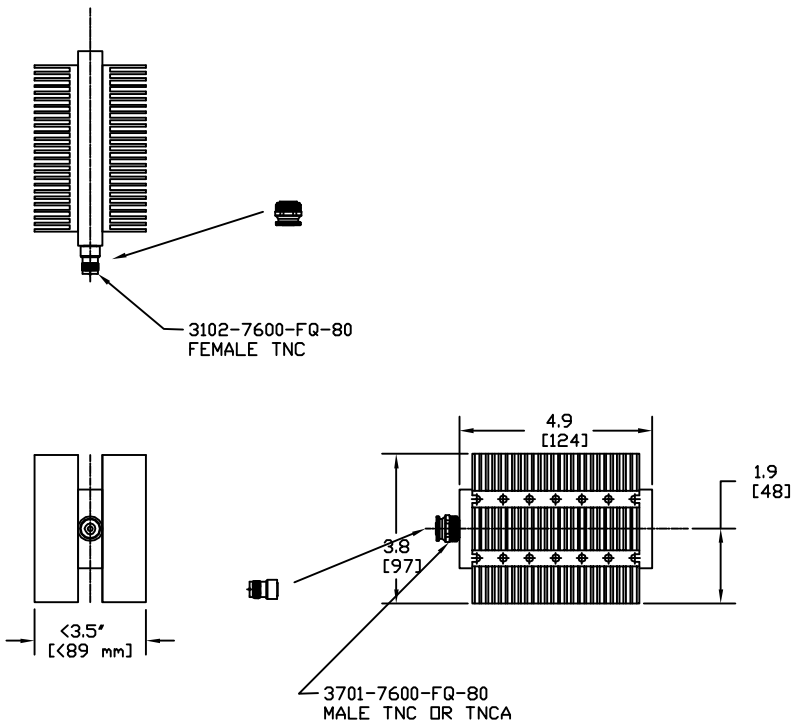
ORDERING INFORMATION

3701-7600-FQ-80 TNC OR TNCA MALE INPUT

3102-7600-FQ-80 TNC FEMALE INPUT

ALSO AVAIL: SMA, TYPE N, DIN 7/16 CONNECTORS

TO DESIGNATE MAX. FREQUENCY UNIT DESIRED REPLACE "-FQ" WITH:
"-02" = 2.5 GHz; "-04" = 4 GHz; "-06" = 6 GHz; "-08" = 8 GHz; "-12" = 12 GHz



DRAWING PRACTICES PER ANSI Y14.5-2009 MIL-STD-100 & 1000	
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/ AFTER PROCESSING	
SURFACE ROUGHNESS	
FINISH	SEE NOTES
MATERIAL	SEE NOTES

UNLESS OTHERWISE SPECIFIED TOLERANCES IN	
DIMENSIONS	INCH
XXX	.05" [1.3]
XXX	.030" [1.76]
XXXX	.010 [2.5]
XXXXX	
ANGLES	
UNLESS OTHERWISE NOTED DIA IS CONCENTRIC <.003 T.I.R.	

DRAWN D. SAUNDERS	DATE 01/14/2010
CHECKED	DATE
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Omni	
XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259	
TITLE 100 Watts Avg. Power Type N Connector Load - Conv. Cooled	
SIZE C	CAGE CODE 3HT76
DWG NO. 370X-7600-FQ-80	
SCALE 1:0.4	PLATING AREA SQUARE INCHES XXX
SHEET 1 OF 1	