

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 μSEC. 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.

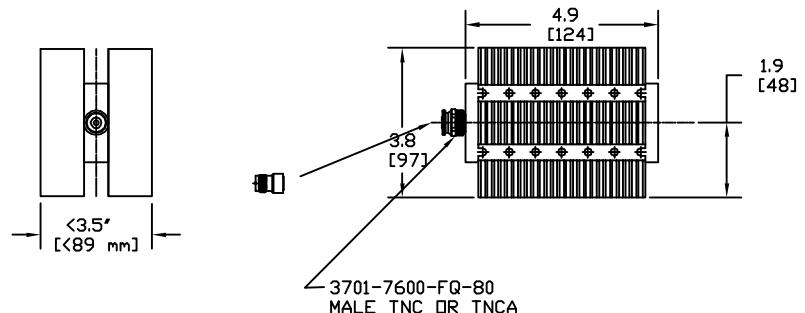
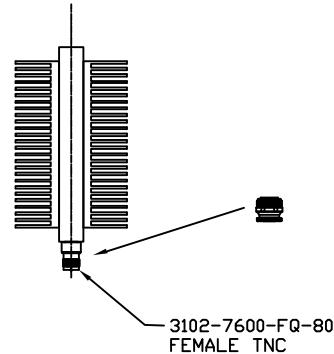
ORDERING INFORMATION

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 Y-14.5 MIL-STD-100 & 100B		UNLESS OTHERWISE SPECIFIED TOLERANCES ON DECIMALS INCH MM	DRAWN D. SAUNDERS 01/14/2010 CHECKED	DATE 01/14/2010
INCH	MM			
.XX" .05" [1.3]				
.XX" .030" [.76]				
.XXX" .010" [.25]				
FINISH				
SEE NOTES				
MATERIAL				
SEE NOTES				

XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259			
Powered by Omni Spectra®			
100 Watts Avg. Power Type N Connector Load - Conv. Cooled			
SIZE	CAGE CODE	DWG NO.	
C	3HT76	370X-7600-FQ-80	
SCALE	10.4	PRINTING SPEC SCALE INCHES	XXX
			SHEET 1 OF 1