

PRODUCTION  
RELEASE

NOTE:  
THIS DRAWING INCORPORATES  
THIRD ANGLE PROJECTION.  
INTERPRET IN ACCORDANCE WITH  
ANSI Y14.5-1995

REVISIONS

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  $\mu$ 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

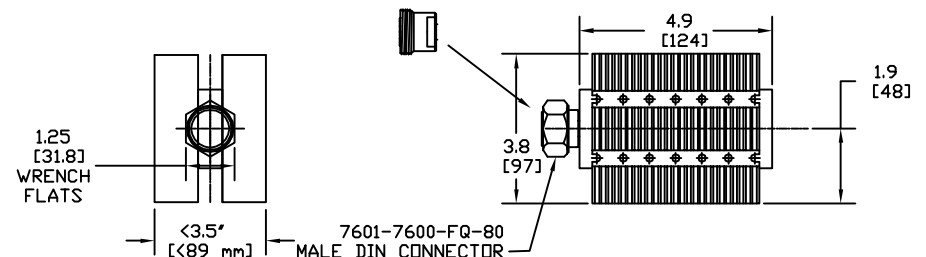
7602-7600-FQ-80 DIN 7/16 FEMALE INPUT

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 Y14.5  
MIL-STD-100 & 1000

3DIMENSIONS ARE IN INCHES AND  
APPLY BEFORE/ AFTER PROCESSING

SURFACE  
ROUGHNESS

FINISH

SEE NOTES

MATERIAL

SEE NOTES

UNLESS OTHERWISE SPECIFIED  
TOLERANCES ON

DECIMALS	INCH	MM
.XX	.05"	[1.3]
.XXX	.030"	[.76]
.XXXX	.010	[.25]

ANGLES

UNLESS OTHERWISE NOTED  
DIAS CONCENTRIC <.003 T.I.R.

DRAWN  
D. SAUNDERS 01/14/2010 DATE

CHECKED

ENG.  
D. SAUNDERS 01/14/2010 DATE

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TITLE  
100 Watts Avg. Power  
DIN 7/16 Connector Load - Conv. Cooled

SIZE	CAGE CODE	DWG NO.
C	3HT76	760X-7600-FQ-80

SCALE 1:10.4

PLATING AREA  
SQUARE INCHES

XXX

SHEET 1 OF 1