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SPECIFICATIONS

INPUT POWER (AVG.) IMPORTANT - UNIDIRECTIONAL DESIGN
 NOTE: ONLY APPLY THIS POWER TO DESIGNATED INPUT PORT
 OUTPUT PORT ONLY CAPABLE OF 20 WATTS
 HIGHER POWER MAY RESULT IN DAMAGE TO UNIT.
 100 WATTS

INPUT MAX. PEAK POWER
 <5 μSEC. PW, <0.1% DUTY CYCLE
 1,000 W

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

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

WEIGHT (MAX.) (LESS, DEPENDING ON CONNECTORS TYPES) 38 OZ. (1.1 kG)

TEMPERATURE RANGE -55°C TO +125°C

POWER HANDLING BEST WHEN UNIT IS MOUNTED WITH HEAT SINK FINS VERTICAL
 THOUGH UNIT HANDLES FULLPOWER IN ANY ORIENTATION WITH FREE AIR CONVECTION

ONLY INPUT PORT CAN TAKE FULL 100 WATTS. OUTPUT PORT 20 WATTS MAX.

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 WITH SILVER PLATING

CASE IS COPPER ALLOY WITH EITHER SILVER OR WHITE BRONZE PLATING

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

ATTENUATION VALUES AVAILABLE:
 3, 6, 10, 20, 30 & 40 DB.
 50 DB AND 60 DB UNITS MAY BE SLIGHTLY LONGER, UP TO 100 DB IS POSSIBLE WITH
 LONGER OUTPUT CONNECTORS

ORDERING EXAMPLES
 A 3 DB UNIT MALE TO FEMALE FOR 6 GHz WOULD BE 3082-7600-06-03
 A 10 DB UNIT MALE TO FEMALE FOR 2.5 GHz WOULD BE 3082-7600-02-10
 A 20 DB UNIT MALE TO MALE FOR 4 GHz WOULD BE 3081-7600-04-20

RF ELECTRICAL SPECIFICATIONS:

ATTENUATION	DC - 2 GHz	2 - 4 GHz	4 - 6 GHz	6 - 8 GHz
03 DB	±0.50	±0.75	±0.75	-0.75/+1.25
06 DB	±0.50	±0.75	+0.75/-1.00	-1.00/+1.25
10 DB	±0.75	±0.75	±1.25	±1.50
20 DB	±0.75	±0.75	±1.25	±1.50
30 DB	±0.75	±1.00	±1.50	±1.75
40 DB	±0.75	±1.25	±1.50	±2.00
50 AND 60 DB	±1.50	±2.00	±2.50	N/A
VSWR (MAX.)	1.20:1	1.35:1	1.40:1	1.45:1

PENDING RELEASE

NOTE:
 THIS DRAWING INCORPORATES
 THIRD ANGLE PROJECTION

INTERPRET IAW ANSI Y14.5-1992

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
B	REVISED 6 TO 8 GHz SPECIFICATIONS	05/06/2011	D. Saunders

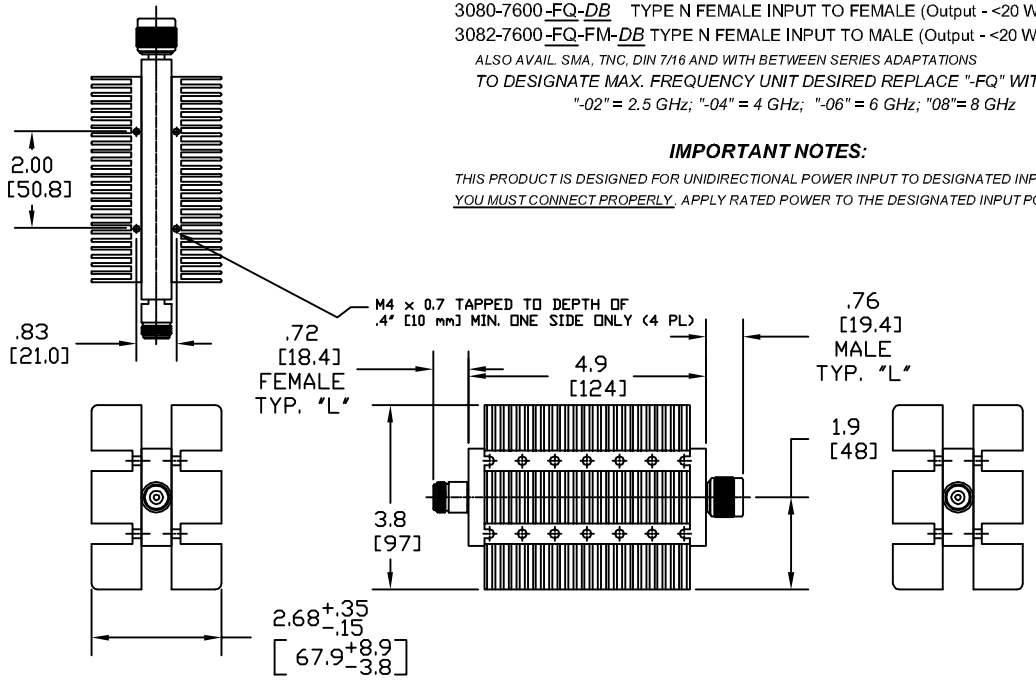
ORDERING INFORMATION

3082-7600-FQ-DB TYPE N MALE INPUT TO FEMALE (Output - <20 W)
 3081-7600-FQ-DB TYPE N MALE INPUT TO N MALE (Output - <20 W)
 3080-7600-FQ-DB TYPE N FEMALE INPUT TO FEMALE (Output - <20 W)
 3082-7600-FQ-FM-DB TYPE N FEMALE INPUT TO MALE (Output - <20 W)

ALSO AVAIL SMA, TNC, DIN 7/16 AND WITH BETWEEN SERIES ADAPTATIONS
 TO DESIGNATE MAX. FREQUENCY UNIT DESIRED REPLACE "FQ" WITH:
 "-02" = 2.5 GHz; "-04" = 4 GHz; "-06" = 6 GHz; "-08" = 8 GHz

IMPORTANT NOTES:

THIS PRODUCT IS DESIGNED FOR UNIDIRECTIONAL POWER INPUT TO DESIGNATED INPUT PORT ONLY.
 YOU MUST CONNECT PROPERLY. APPLY RATED POWER TO THE DESIGNATED INPUT PORT ONLY.



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

DIMENSIONS ARE IN INCHES AND
 APPLY BEFORE/AFTER PROCESSING

SURFACE
 ROUGHNESS
 INCHES

FINISH
 SEE NOTES

MATERIAL
 SEE NOTES

UNLESS OTHERWISE SPECIFIED
 TOLERANCES IN:

DECIMALS	INCH	MM
.X"	.1"	[2.5]
.XX"	.05"	[1.27]
.XXX"	.03	[.77]

ANGLES ±2°

UNLESS OTHERWISE NOTED
 DIAS ON COMMON CENTERS
 ARE CONCENTRIC ±.003 T.I.R.

DRAWN	DATE
D. SAUNDERS	
CHECKED	DATE
SAUNDERS	
ENGINEER APPR.	DATE

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XMA Omni Spectra®
 Phone: 603-222-2256 Fax: 603-222-2259
 150 Dow Street, Manchester, NH 03101

POWERED BY:

TITLE
**100 WATT INPUT, TYPE N
 ATTENUATOR - AIR COOLED**

SIZE	CAGE CODE	DRAWING NUMBER
B	3HT76	3082-7600-FQ-DB
SCALE 1:1	REV. 1.0 SQ. IN	XXX
		SHEET 1 OF 1

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BCSI