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**PRODUCTION
RELEASE**

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION.

INTERPRET IAW ANSI Y14.5-1992

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
B1	ADDED 50 - 100 dB	8/3/09	T. KUHN

ELECTRICAL

FREQUENCY RANGE	DC - 6GHz, 12.4GHz & 18GHz		
AVAILABLE dB VALUES	3, 6, 10 - 100 dB (IN 10 dB INCREMENTS)		
ATTENUATION ACCURACY	DC-6GHz	6-12.4GHz	12.4-18GHz
3 & 6 dB	±0.75 dB	±0.75 dB	±0.75 dB
10 & 20 dB	±0.75 dB	±0.75 dB	±1.00 dB
30 dB	±0.75 dB	±1.00 dB	±1.25 dB
40 dB	±1.00 dB	±1.25 dB	±1.50 dB
50 & 60 dB	±1.25 dB	±2.00 dB	±2.50 dB
70 & 80 dB	±1.75 dB	±2.50 dB	±3.00 dB
90 dB	±2.25 dB	±3.00 dB	±3.25 dB
100 dB	±3.00 dB	±3.25 dB	±3.25 dB

VSWR

DC - 6 GHz	1.25:1 MAX
6 - 12.4 GHz	1.35:1 MAX
12.4 - 18 GHz	1.45:1 MAX

INPUT POWER 50 WATTS AVG. @ 25°C

PEAK POWER 500 WATTS
(50µSec PULSE, 0.5% DUTY CYCLE)

IMPEDANCE 50 OHMS
OPERATING TEMP RANGE -65°C TO +125°C

MECHANICAL

TYPE N CONNECTORS	PASSIVATED STAINLESS STEEL
CONDUCTORS	GOLD PLATED BERYLLIUM COPPER
HOUSING	BLACK ANODIZED ALUMINUM

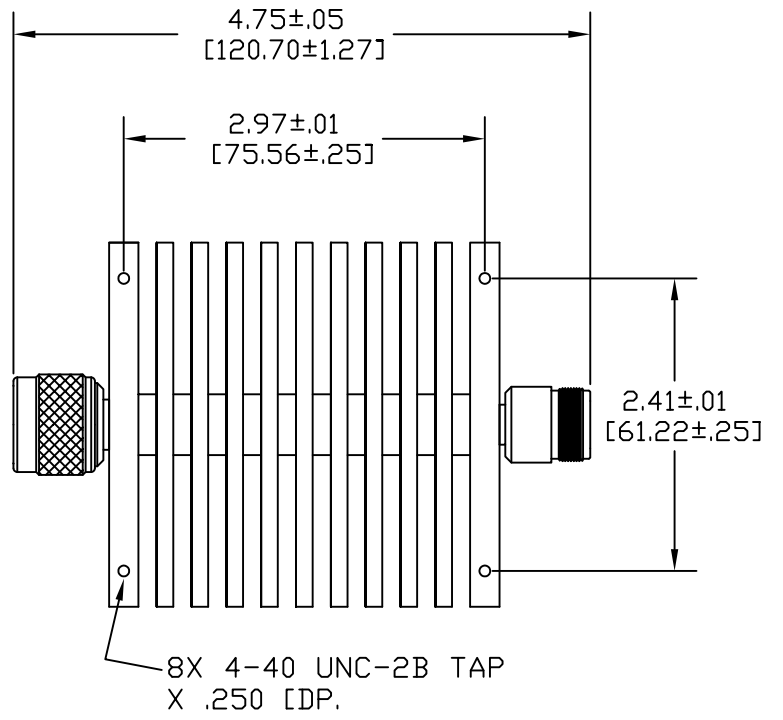
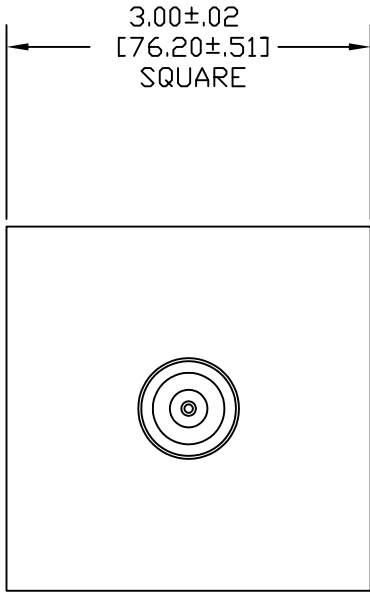
ORDERING INFORMATION

3082-7550-FQ-DB	TYPE N MALE INPUT TO FEMALE OUTPUT
3081-7550-FQ-DB	TYPE N MALE INPUT TO MALE OUTPUT
3080-7550-FQ-DB	TYPE N FEMALE INPUT TO FEMALE OUTPUT
3082-7550-FQ-FM-DB	TYPE N FEMALE INPUT TO MALE OUTPUT

TO DESIGNATE MAX FREQUENCY REPLACE '-FQ-' WITH:
'-06' = 6 GHz; '-12' = 12.4 GHz; '-18' = 18 GHz

ORDERING EXAMPLES

- A 10dB UNIT MALE TO FEMALE FOR 6 GHz WOULD BE 3082-7550-06-10
- A 20dB UNIT MALE TO MALE FOR 18 GHz WOULD BE 3081-7550-18-20
- A 3dB UNIT FEMALE TO MALE FOR 12 GHz WOULD BE 3082-7550-12-FM-03



NOTES:

UNIT IS UNIDIRECTIONAL, THE INPUT CONNECTOR WILL BE MARKED ACCORDINGLY.
THE OUTPUT PORT HANDLES 5 WATTS MAX POWER.

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000	
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	TOLERANCES IN: DECIMALS INCH DIM
SURFACE ROUGHNESS INCHES 63 ✓	.X" .03" [.76] .XX" .010" [.25] .XXX" .005 [.127] .XXXX" .0005" [.013]
FINISH SEE NOTES	ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.
MATERIAL SEE NOTES	

DRAWN T. KUHN	DATE 3/7/07
CHECKED	DATE
ENGINEER APPR. T. KUHN	DATE 11/7/08
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150 Dow Street, Manchester, NH 03101

TITLE OUTLINE DRAWING ATT, 50 W, TYPE N M/F, DC - 18GHz			
SIZE B	CAGE CODE 3HT76	DRAWING NUMBER 3082-7550-FQ-DB	
SCALE 1:1	PLATED AREA SQ. IN XXX	SHEET 1 OF 1	

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