

SPECIFICATIONS

INPUT POWER (AVG.) - IMPORTANT - UNIDIRECTIONAL DESIGN 150 WATTS
 NOTE: ONLY APPLY THIS POWER TO DESIGNATED INPUT PORT
 OUTPUT PORT ONLY CAPABLE OF 20 WATTS
 HIGHER POWER MAY RESULT IN DAMAGE TO UNIT.

INPUT MAX. PEAK POWER 2,000 W
 <5 μSEC. PIV, <0.1% DUTY CYCLE

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

HEAT SINK THERMAL RISE (CALCULATED) 0.58°C/Watt

WEIGHT (MAX.) (LESS, DEPENDING ON CONNECTOR TYPES) 4.2 Lbs. (1.9 KG)

TEMPERATURE RANGE -55°C TO +85°C

ELECTRICAL PERFORMANCE SPECIFIED WHEN INPUT PORT IS MATED WITH A CONNECTOR FROM TABLE 1

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

ONLY INPUT PORT CAN TAKE FULL 150 WATTS. OUTPUT PORT 20 WATTS MAX.

MATERIALS:

CONNECTORS (COMPLY WITH MIL-PRF-39012 & MIL-STD-348):
 COUPLING NUTS ARE STAINLESS STEEL.
 CENTER CONTACTS ARE BERYLLIUM COPPER

HOUSING IS ALUMINUM ALLOY WITH CHEMICAL CONVERSION COAT

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 STANDARD WITH 50 & 60 DB SPECIAL ORDER.
 50 DB AND 60 DB UNITS WILL BE APPROXIMATELY 1.9 LONGER

RF ELECTRICAL SPECIFICATIONS:

ATTENUATION	DC - 2 GHz	2 - 4 GHz	4 - 6 GHz	6 - 8 GHz
03 DB	±0.75	±0.75	±1.00	-0.75/+1.25
06 DB	±0.75	±0.75	±1.00	-1.00/+1.25
10 DB	±0.75	±1.00	±1.25	±1.50
20 DB	±1.00	±1.00	±1.25	±1.50
30 DB	±1.00	±1.25	±1.50	±1.75
40 DB	±1.25	±1.25	±1.50	±2.00

Special Orders:

50 AND 60 DB ±1.50 ±2.00 ±2.50 ±3.00

VSWR (MAX) 1.20:1 1.35:1 1.45:1 1.50:1

REV	DESCRIPTION	ECO #	DATE	APPROVED
A	ADDED TABLE 1	13-275	11/07/13	T. KUHN
B	REVISED HOUSING FINISH	19-049	4/19/19	T. KUHN

ORDERING INFORMATION

FQ = FREQUENCY MAX. ENTER EITHER:
 02 (2.5 GHz), 04 (GHz), 06 (GHz) OR 08 (GHz)
 DB = ATTENUATION CHOICE FROM BELOW TABLE LEFT COLUMN OF 03,
 06, 10, 20, 30, 40, 50 OR 60

ORDER THE COAXIAL CONNECTORS FOR UNIT SEPARATELY AS
 "ADXX-9801-FF" FEMALE OR "ADXX-9901-FF MALE"
 XX = : AD20 (SMA), AD30 (TYPE N), AD31 (TNC), AD76 (DIN 7/16)
 FF = : FINISH ON CONNECTORS AND 02 = PASSIVATD (EXCEPT AD76), 03 =
 SILVER (EXCEPT SMA CONNECTORS)

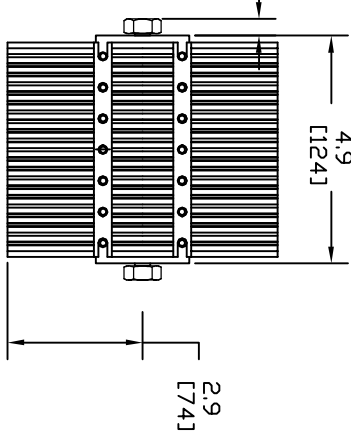
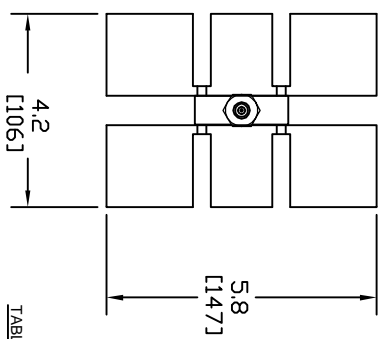
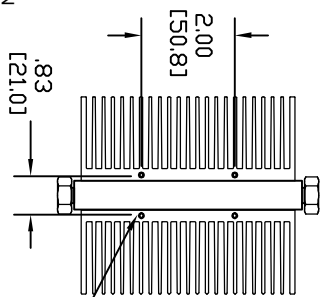


TABLE 1

DESCRIPTION	PART NUMBER	FACTORY TORQUE	INDUSTRY MOUNTING TORQUE
SMA MALE	AD20-9901-02	25 LB. IN.	7-10 LB. IN.
SMA FEMALE	AD20-9801-02	25 LB. IN.	7-10 LB. IN.
TYPE N MALE	AD30-9901-02	40 LB. IN.	15-20 LB. IN.
TYPE N FEMALE	AD30-9801-02	40 LB. IN.	15-20 LB. IN.
TNC MALE	AD31-9901-02	40 LB. IN.	12-15 LB. IN.
TNC FEMALE	AD31-9801-02	40 LB. IN.	12-15 LB. IN.
7/16 MALE	AD76-9901-02**	50 LB. IN.	20-25 LB. FT.
7/16 FEMALE	AD76-9801-02**	50 LB. IN.	20-25 LB. FT.

** RATED TO 8 GHz MAX. USE CONNECTOR WRENCH FLATS WHEN MOUNTING/DEMOUNTING IN THE FIELD.

REVISIONS	DATE	DATE
5/06/12	5/06/12	5/06/12
DESIGN	DATE	DATE
5/06/12	5/06/12	5/06/12
DATE	DATE	DATE
5/06/12	5/06/12	5/06/12
DATE	DATE	DATE
5/06/12	5/06/12	5/06/12

150 WATT INPUT, TYPE N ATTENUATOR - AIR COOLED

AD80-7650-FQ-DB

DRAWING NUMBER

REV B

SCALE: 5:1

SHEET 1 OF 1

TEMP: REV -