

ELECTRICAL

FREQUENCY RANGE _____ DC - 6GHz & 18GHz (ONLY 6GHz FOR 50dB)
 AVAILABLE dB VALUES _____ 3, 6, 10, 20, 30, 40, 50dB

ATTENUATION ACCURACY _____ DC-6GHz 6-12.4GHz 12.4-18GHz
 3 & 6 dB _____ ±0.75 dB ±0.75 dB ±1.00 dB
 10 & 20 dB _____ ±0.75 dB ±0.75 dB ±1.25 dB
 30 dB _____ ±0.75 dB ±1.00 dB ±1.50 dB
 40 dB _____ ±1.00 dB ±1.25 dB ±1.50 dB
 50 dB _____ ±1.25 dB

VSWR
 DC - 6 GHz _____ 1.30:1 MAX
 6 - 12.4 GHz _____ 1.45:1 MAX
 12.4 - 18 GHz _____ 1.60:1 MAX
 *50db RATED TO 6 GHz MAX ONLY

INPUT POWER _____ 50 WATTS AVG. @ 25°C
 DERATED LINEARLY TO 10 WATTS @ 125°C
 PEAK POWER _____ 500 WATTS
 (5uSec PULSE, .05% DUTY CYCLE)

IMPEDANCE _____ 50 OHMS

OPERATING TEMP RANGE _____ -65°C TO +125°C

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

MECHANICAL

CONDUCTORS _____ GOLD PLATED BeCu
 HOUSING _____ BLACK ANODIZED ALUMINUM

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

TO DESIGNATE dB VALUE REPLACE "-DB" WITH:
 "-03" = 3 dB; "-10" = 10 dB; "-20" = 20 dB

TABLE 1

DESCRIPTION	PART NUMBER	FACTORY TORQUE	INDUSTRY MATING 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 MATING/DEMATING IN THE FIELD.

NOTES:

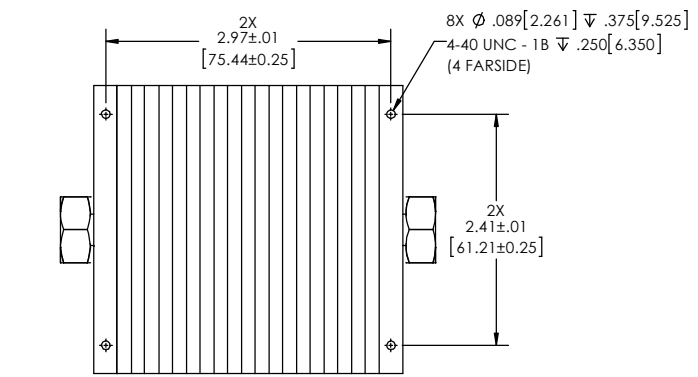
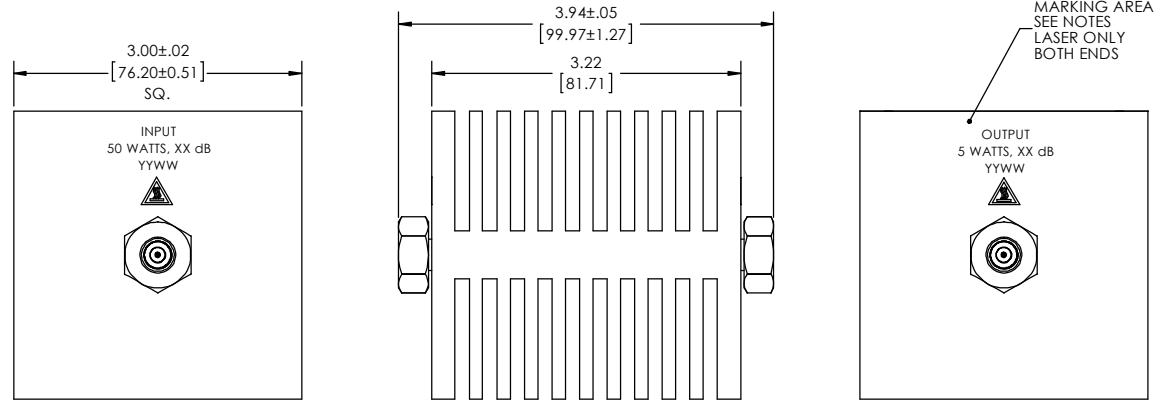
UNIT IS UNIDIRECTIONAL, THE INPUT CONNECTOR WILL BE MARKED ACCORDINGLY. THE OUTPUT PORT HANDLES 5 WATTS MAX POWER.

ROHS COMPLIANT DESIGN

MARKING

PART MARKING ORIENTATION AND FORMAT AS SHOWN (LABELS). "dB" IS TO BE REPLACED WITH A DOUBLE DIGIT dB VALUE FROM WORK ORDER. PLACE IN BOXES THAT WILL ACCOMMODATE UNITS WITH CONNECTORS MARKING IS TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE, AND A BLACK COLOR. YYWW EQUALS DATE CODE.

REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
A	ADDED DIMS, CHANGED UPDATE VIEW		10/19/12	T.KUHN
B	MODIFIED TABLE 1	13-275	11/7/12	T.KUHN
C	UPDATED FORMAT, ADDED MARKING	16-102	11/7/12	T.KUHN



dB VALUE	MARKED dB VALUE
03	03
06	06
10	10
20	20
30	30
40	40
50	50
60	60

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
	AD80-7550-FQ-dB	ATTENUATOR, DC-18GHz, 50W	
1	TA-AD80-7550-FQ-dBU	ASSEMBLY, ATTENUATOR, DC-18GHz, 50W, UNMARKED	1

DRAWING PRACTICES PER ANSI Y14.5 DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING SURFACE ROUGHNESS FINISH: SEE NOTES MATERIAL: SEE NOTES NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION. INTERPRET LAW ANSI Y14.5-1982	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH (MM) .X" .05" [1.27] .XX" .03" [.76] .XXX" .010" [.25]	DRAWN T.KUHN 3/7/07	DATE 3/7/07
		CHECKED DATE	DATE
ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.	DO NOT SCALE PRINT	ENG APPR. T.KUHN 5/30/12	DATE 5/30/12
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP. OR OMNI SPECTRA AND SHALL NOT BE REPRODUCED, COPIED NOR USED IN WHOLE OR IN PART AS A BASIS FOR THE MANUFACTURE OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS WRITTEN PERMISSION OF XMA CORP.		XMA Omni Spectra Phone: 603-222-2256 Fax: 603-222-2259 150 Dow Street, Manchester, NH 03103	
TITLE ATTENUATOR, DC-18GHz, 50W		SIZE C	CAGE CODE 3HT76
DRAWING NUMBER AD80-7550-FQ-dB		REV C	SHEET 1 OF 1

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3

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1

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3

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