



REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
D	UPDATED TO REFLECT UPDATED PARTS		5/5/11	T.KUHN
E	UPDATED FORMAT; ADDED MARKING	15-349	12/14/15	T.KUHN
F	CHANGED MARKING ORIENTATION	16-033	2/12/16	T.KUHN
G	.81±.05" WAS .85±.05"	17-084	6/6/17	T.KUHN

MARKING AREAS  
SEE NOTES

**SPECIFICATIONS**

**ELECTRICAL**

**RF ELECTRICAL SPECIFICATIONS:**

ATTENUATION	DC - 2 GHz	2 - 4 GHz	4 - 6 GHz	6 - 8 GHz
03 dB & 6dB	±0.50	±0.75	±0.75	+1.25
10 dB	±0.75	±0.75	±1.25	±1.50
20 dB	±0.75	±0.75	±1.25	±2.00
30 dB	±0.75	±1.00	±1.50	±2.00
40 dB	±1.00	±1.25	±1.50	±2.25
50 AND 60 dB	±1.50	±2.00	±2.50	±3.00
VSWR (MAX.)	1.20:1	1.30:1	1.40:1	1.50:1

INPUT POWER (AVG.) \_\_\_\_\_ 150 W  
POWER DERATES TO 10% @ +125°C AMBIENT FROM 25°C

OUTPUT POWER (AVG.) \_\_\_\_\_ 20 W

INPUT MAX. PEAK POWER \_\_\_\_\_ 2,500 W  
<5 μSEC. PW, f<0.1% DUTY CYCLE

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

WEIGHT (MAX.) (LESS, DEPENDING ON CONNECTORS TYPES) \_\_\_\_\_ 3.4 LBS (1.6 kg)

TEMPERATURE RANGE \_\_\_\_\_ -55°C TO +125°C

**MECHANICAL**

CONNECTORS (COMPLY WITH MIL-PRF-39012 & MIL-STD-348):  
HOUSING AND COUPLING NUTS \_\_\_\_\_ STAINLESS STEEL WITH SILVER PLATING.  
CENTER CONTACTS \_\_\_\_\_ BERYLLIUM COPPER WITH SILVER PLATING

CASE \_\_\_\_\_ COPPER ALLOY WITH EITHER SILVER OR WHITE BRONZE PLATING

HEAT SINKS \_\_\_\_\_ ALUMINUM ALLOY, BLACK ANODIZE FINISH

INTERNAL RESISTIVE ELEMENTS \_\_\_\_\_ 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 AND 50 dB.

**MARKING**

PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
LASER MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE.  
YYYYW EQUALS DATE CODE.

**ORDERING INFORMATION**

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.

QTY.	PART NO.	DESCRIPTION	ITEM NO
X	3082-7650-FQ-dB	ATTENUATOR, TYPE N-m/f, 150W	
1	TA-3082-7650-FQ-DBU	ATTENUATOR, TYPE N-m/f, 150W, UNMARKED	1

DRAWING PRACTICES PER ANSI Y14.5 DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH [MM] X" .05" [1.27] .XX" .03" [.76] .XXX" .010" [.25]	DRAWN DATE MCCORMICK 12/14/15
SURFACE FINISH: 63	ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.F.	CHECKED DATE MCCORMICK 12/14/15
SEE NOTES	DO NOT SCALE PRINT	ENG APPR. DATE T.KUHN 12/14/15
MATERIAL: NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.		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.

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	3HT76	3082-7650-FQ-dB	G

**XMA** Omni Spectra®  
Phone: 603-222-2256 Fax: 603-222-2259  
150 Dow Street, Manchester, NH 03103

ATTENUATOR, TYPE N-m/f, DC-8GHz, 150W

SCALE PLATED AREA 50 IN SHEET 1 OF 1