

REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
B	REVISED 6 TO 8 GHz SPECS		9/28/15	T.KUHN
C	NEW FORMAT; ADDED MARKING	15-289	9/28/15	T.KUHN
D	REVISED HOUSING MATERIAL	19-049	4/22/19	T.KUHN

SPECIFICATIONS

INPUT POWER (AVG.) IMPORTANT - UNIDIRECTIONAL DESIGN 100 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 1,000 W
 <5 μSEC. PW, /<0.1% DUTY CYCLE

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

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

WEIGHT (MAX.) 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 FULL POWER 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):
 COUPLING NUTS ARE STAINLESS STEEL WITH SILVER PLATING.
 CENTER CONTACTS ARE BERYLLIUM COPPER WITH SILVER PLATING

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

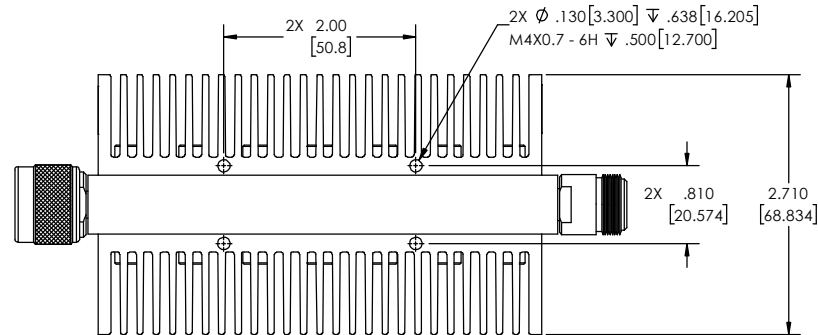
ATTENUATION VALUES AVAILABLE:
 3, 6, 10, 20, 30 & 40 DB.

ATTENUATION	RF ELECTRICAL SPECIFICATIONS:			
	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
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MARKING

PART LOOKS LIKE PRODUCT IMAGE ABOVE.
 PART MARKING ORIENTATION AND FORMAT AS SHOWN.
 XX TO BE REPLACED WITH TWO DIGIT dB VALUE SPECIFIED ON WORK ORDER.
 FQ TO BE REPLACED WITH TWO DIGIT FREQUENCY VALUE SPECIFIED ON WORK ORDER.
 YYWW = DATE CODE.



ORDERING INFORMATION
 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

QTY.	PART NO.	DESCRIPTION	ITEM NO
X	3082-7600-FQ-DB	ATTENUATOR, TYPE N, M/F, 100 WATTS	
1	TA-3082-7600-FQ-DBU	ATTENUATOR, TYPE N, M/F, 100 WATTS, UNMARKED	1

DRAWING PRACTICES PER ANSI Y14.5 DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING SURFACE FINISH: 63 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] 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	DRAWN DATE McCORMICK 05/06/11 CHECKED DATE McCORMICK 05/06/11 ENG APPR. DATE T.KUHN 05/06/11 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.
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ATTENUATOR, TYPE N-m/f, 100 WATTS			
SIZE	CAGE CODE	DRAWING NUMBER	REV
C	3HT76	3082-7600-FQ-DB	D
SCALE	PLATED AREA 50 IN	SHEET 1 OF 1	