NOTES - UNLESS OTHERWISE SPECIFIED:

1.0 APPLICABLE STANDARDS / SPECIFICATIONS:
1.1 ASME Y14.5M - 1994 (DIMENSIONING AND TOLERANCING):

2.0 MATERIAL RESTRICTIONS:
2.1 THIS PART MUST BE COMPLIANT TO THE RoHS DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 JANUARY 2003, ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT.

3.0 DIMENSIONING AND TOLERANCING:
3.1 DIMENSIONS ARE SHOWN IN UNITS AS SPECIFIED IN TITLE BLOCK.
3.2 A REFERENCE (REF) DIMENSION IS A DIMENSION WITHOUT TOLERANCE AND IS USED FOR INFORMATIONAL PURPOSES ONLY.
3.3 ALL RADII PER ELECTRONIC DATA FILE UNLESS OTHERWISE SPECIFIED
3.4 DIMENSIONLESS FEATURES ARE CONSIDERED TO BE PROCESS CONTROLLED. LOCATIONS ARE GOVERNED BY THE ELECTRONIC DATA FILE GEOMETRY AND 2-PLACE DECIMAL TOLERANCES AS SPECIFIED IN TITLE BLOCK.

4.0 MATERIAL:
4.1 CONNECTOR
4.1.1 U. FL (I-PEX IPX-13 OR EQUIVALENT)
4.2 CABLE:
4.2.1 1.13MM DIAMETER COAXIAL CABLE
4.2.2 INNER CONDUCTOR: SILVER PLATED COPPER WIRE
4.2.3 OUTER CONDUCTOR: TIN PLATED COPPER WIRE
4.2.4 INSULATOR: PFA FLUOROPOLYMER OR EQUIVALENT
4.2.5 OUTER JACKET: FEP FLUOROPOLYMER OR EQUIVALENT

5.0 FINISH: N/A

6.0 PROCESS ALLOWANCE: NONE

REVISIONS (Δ DENOTES CHANGE)		
REV	DATE (YYMMDD)	UPDATED BY
A	101105 INITIAL RELEASE	P. BACIUSKA
B	110922	S. JOHNSON
C	111025	M. BOLAN

ELECTRONIC DATA FILES	
FILE NAME	DESCRIPTION
66089-XXXX_C.pdf	ADOBE PDF DRAWING
66089-XXXX_C.dxf	2D CAD DRAWING
66089-XXXX_C.xls	FAI SHEET

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
-TOLERANCES-

2 PL DEC ± .10
1 PL DEC ± .3
ANGLES ± 1°

CONTRACT NO.

DRAWN BY	DATE (YYMMDD)
S JOHNSON	10/07/13
DESIGNER N/A	
ENGINEER K RICHARDSON	
APPROVAL SIGNATURES ON FILE	

THIRD ANGLE PROJECTION

Anaren

ANAREN MICROWAVE INC.
EAST SYRACUSE, NEW YORK

ANTENNA, MONOPOLE

SIZE	CAGE CODE	DOC NO.	
A	31597	66089-XXXX	19
SCALE	DOC CODE 0	REV C	SHEET 1 OF 3

DIST

7.0 COMPONENT PERFORMANCE CHARACTERISTICS (AT CENTER FREQUENCY):
7.1 IMPEDANCE: 50 OHMS
7.2 CENTER FREQUENCY: SEE TABLE 2
7.3 GAIN: 2 DBI C
7.4 VSWR: 1.7 MAX
7.5 RADIATION: OMNIDIRECTIONAL

8.0 PERMANENT MARKING: NONE

9.0 INSPECTION CRITERIA:
9.1 RESPONSIBILITY FOR INSPECTION: UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR ORDER, THE SUPPLIER IS RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION REQUIREMENTS AS SPECIFIED HEREIN. THE SUPPLIER MAY UTILIZE THEIR OWN FACILITIES OR ANY SUITABLE LABORATORIES UNLESS DISAPPROVED BY ANAREN MICROWAVE, INC. (AMI). AMI RESERVES THE RIGHT TO PERFORM ANY OF THE TESTS SET FORTH IN THIS SPECIFICATION. IF NO INSPECTION IS SPECIFIED, THE SUPPLIER IS RESPONSIBLE FOR ENSURING THAT PARTS MEET THE REQUIREMENTS OF THIS DRAWING.
9.2 FIRST ARTICLE INSPECTION (FAI) SPECIFIED PARAMETER DATA, BOX-D#, [D#],: THIS SPECIFIED PARAMETER DATA IS USED FOR QUALITY EVALUATION OF THE FIRST PIECE PARTS PRODUCED FROM THE PRODUCTION TOOL/PROCESS AND EACH MANUFACTURING LOT (MFG LOT).
9.3 ALL DATA SHALL BE SUBMITTED TO AMI IN ELECTRONIC FORMAT IN THE EXCEL (.xls) FILES SUPPLIED BY AMI.
9.4 ALL PIECES SHALL BE SERIALIZED TO CORRESPOND WITH THE SAMPLE NUMBER IN THE FAI EXCEL SPREAD-SHEETS.
9.5 SERIALIZATION MARKING SHALL CONSIST OF NON-PERMANENT, NON-DAMAGING METHODS (SUCH AS FELT-TIPPED MARKER.) THE SERIALIZATION SHALL NOT DEGRADE/DAMAGE THE PART. NO SCRATCHES, DENTS OR DEFORMATION ALLOWED.
9.6 ALL FAI PIECES SHALL BE SUBMITTED TO AMI WHEN THE DATA IS SUBMITTED TO AMI.
9.7 THE FOLLOWING TABLE INDICATES THE REQUIRED DIMENSIONS AND NUMBER OF SERIALIZED PIECES NECESSARY TO SATISFY FAI AND MFG LOT REQUIREMENTS:

TABLE 1: FIRST ARTICLE INSPECTION & MANUFACTURING LOT DATA			
PARAMETER DATA		FAI	MFG LOT
# SERIALIZED PCS		30	5
DIMENSIONS REQUIRED	SHEET	3	3
	VIEW/FIG.	1	1

10.0 SHIPPING AND STORAGE:
10.1 THE SUPPLIER MUST FOLLOW THESE PRECAUTIONS WHEN SHIPPING AND STORING THESE PARTS.
10.2 THE SUPPLIER SHALL STORE AND SHIP BOTH RAW MATERIAL AND FINISHED PARTS IN A CONTROLLED, NON-CORROSIVE ENVIRONMENT TO PREVENT OXIDATION, CORROSION, ETC.
10.2.1 UNIQUE MATERIAL CHARACTERISTICS SUCH AS CORROSION PROTECTION FOR UNPLATED STEEL SUPERSEDE THE FOLLOWING REQUIREMENTS.
10.2.2 STORAGE:
10.2.2.1 TEMPERATURE RANGE: 15 °C TO 30 °C.
10.2.2.2 RELATIVE HUMIDITY: 40% RH MAXIMUM.
10.2.3 SHIPPING:
10.2.3.1 TEMPERATURE RANGE: -15 °C TO 40 °C (FOR LESS THAN 3 DAYS).
10.3 THE SUPPLIER SHALL STORE, HANDLE, PACKAGE AND SHIP RAW MATERIALS AND FINISHED GOODS IN A MANNER THAT PREVENTS DAMAGE OR DEGRADATION OF THE MATERIAL.
10.4 THE SUPPLIER SHALL LABEL EACH PRODUCT CONTAINER/BAG WITH PART NUMBER, PURCHASE ORDER NUMBER AND QUANTITY PER CONTAINER/BAG.
10.4.1 THE SUPPLIER IS RESPONSIBLE FOR LABELING AND STORING FINISHED GOODS TO PREVENT MIXING WITH OTHER PARTS.

SIZE	CAGE CODE	DOC NO.	
A	31597		66089-XXXX
SCALE NTS	DOC CODE 0	REV C	SHEET 2

11.0 PART NUMBER SELECTION SYSTEM:
11.1 SEE BELOW:

66089-_ _ _ _
- LEAD (mm) MEASURED FROM CONNECTOR CENTER PIN TO END OF JACKET AND BRAID
- BAND (SEE TABLE 2)

EXAMPLE: 66089-2406
- LEAD, 6mm
- CENTER FREQUENCY, 2442 MHz

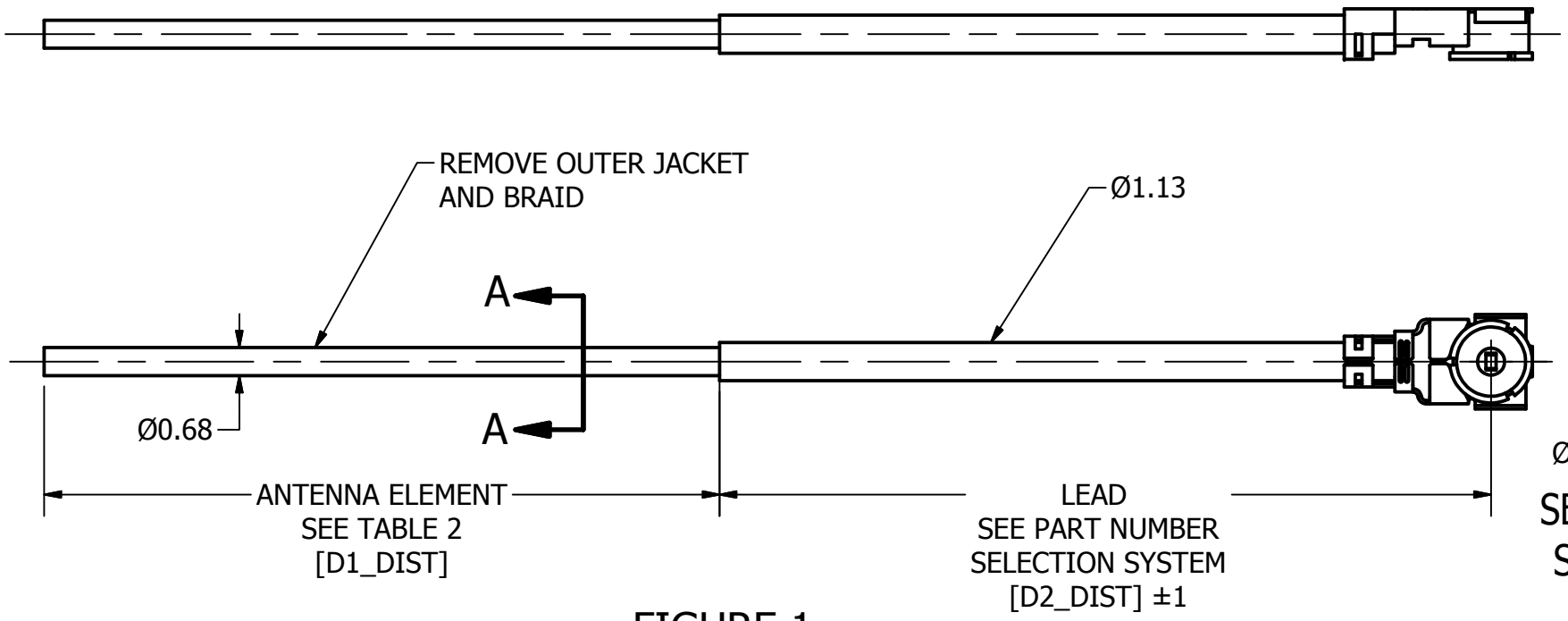

FIGURE 1

TABLE 2: ANTENNA ELEMENT		
BAND	ANTENNA ELEMENT (mm)	CENTER FREQUENCY
04	173±1	425 MHz
08	86±1	866 MHz
09	82±1	915 MHz
24	30±1	2.442 GHz
89	84±1	898 MHz

SIZE	CAGE CODE	DOC NO.	
A	31597		66089-XXXX
SCALE NTS	DOC CODE 0	REV C	SHEET 3