



# MEA-3L-SMA-LP

Cellular/LTE Connector mount  
Part #: 100-00303-01

## Description

The MEA-3L-SMA-LP is an external narrowband antenna designed for cellular/LTE frequencies (698-960 MHz – 1710-2170 MHz- 2500-2700 MHz ). The antenna provides exceptional pattern control, polarization purity and high efficiency. The MEA-3L-SMA is available in two configurations: a straight, and right angle SMA-Male connector.

Featuring a rugged housing allows the antenna to be considered for various demanding installations. MEA-3L-SMA-LP provides outstanding performance for NB-IoT applications.



## Electrical Specification

Parameter	Specifications		
Standards	2G,3G and 4G		
Technologies	GSM, CDMA, DCS, PCS, GPRS, WCDMA, UMTS, HSPA, EVDO and LTE		
Band MHz	700/850/900	1700/1800/1900/2100	2600
Frequency Range	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Return Loss (dB)	~-5.8	~-13.9	~-3.6
VSWR	~-3.5:1	~-2.1:1	~-5.5:1
Efficiency (%)	~-66.6	~-66.1	~-25.8
Peak Gain (dBi)	~-0.9	~-2.7	~-1.5
Average Gain (dB)	~-1.9	~-1.8	~-6.1
Impedance (Ohm)	50		
Polarization	Linear		
Radiation Pattern	Omni-Directional		
Max Input Power	25		
Connector Type	SMA-Male Standard (Right-Angle)		

## Mechanical Specifications

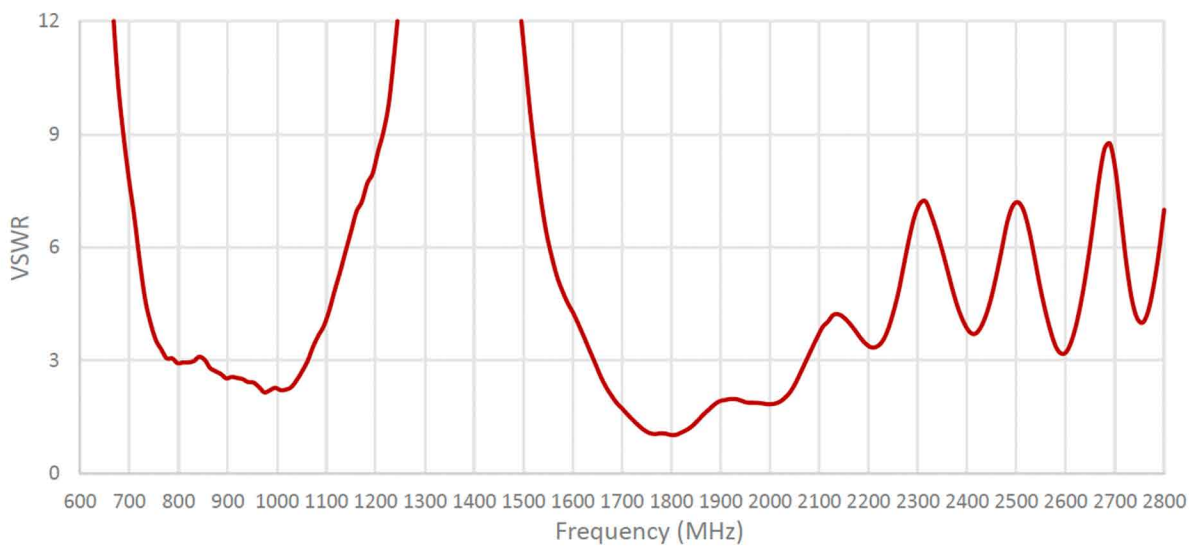
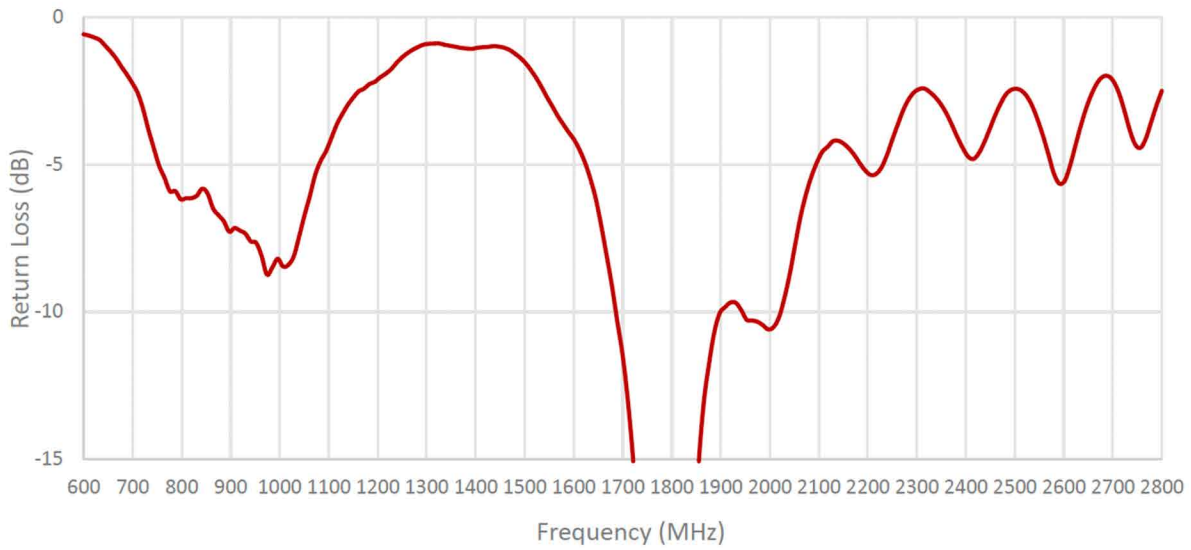
Parameter	Specifications
Antenna Dimensions (mm)	44 × 19.1 × 9
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Connector Mount
Radome/Color	TPC-ET/ Black
Substance Compliance	RoHS
*Mounted on Ground Plane of 115x45 mm	

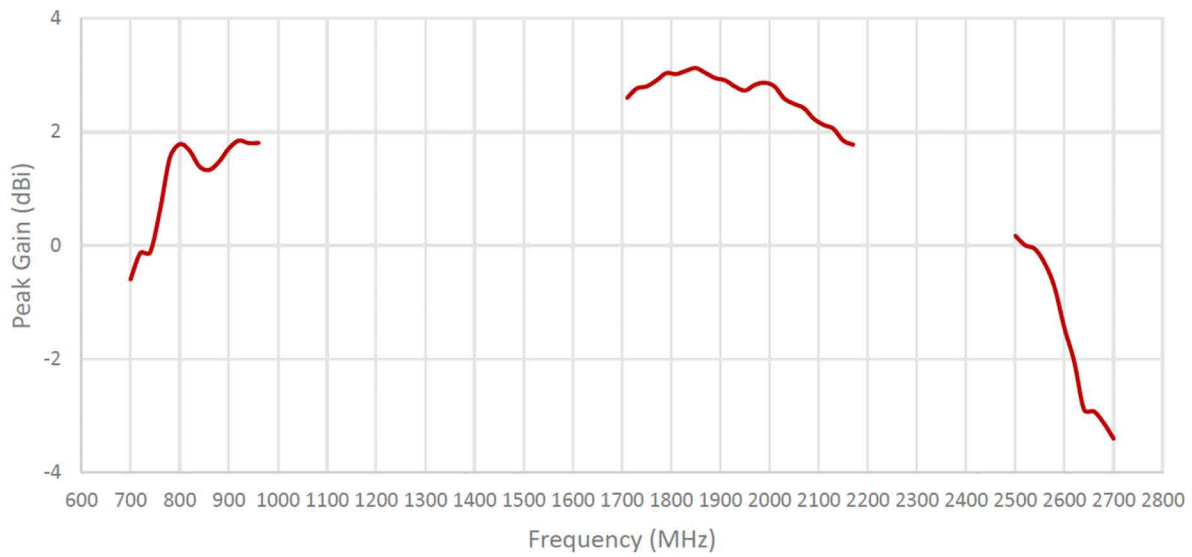
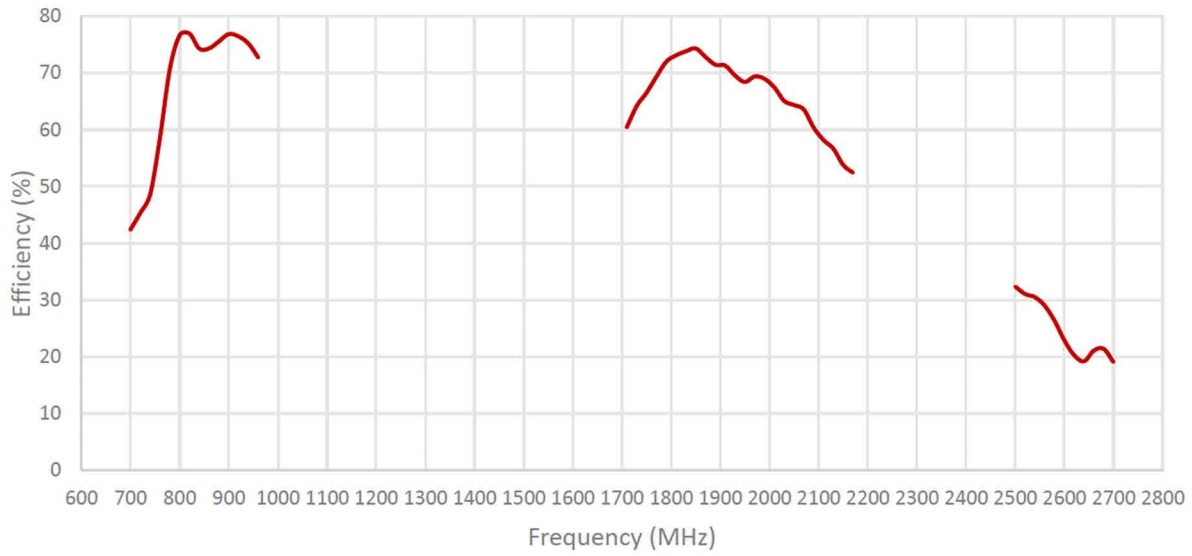
## Features

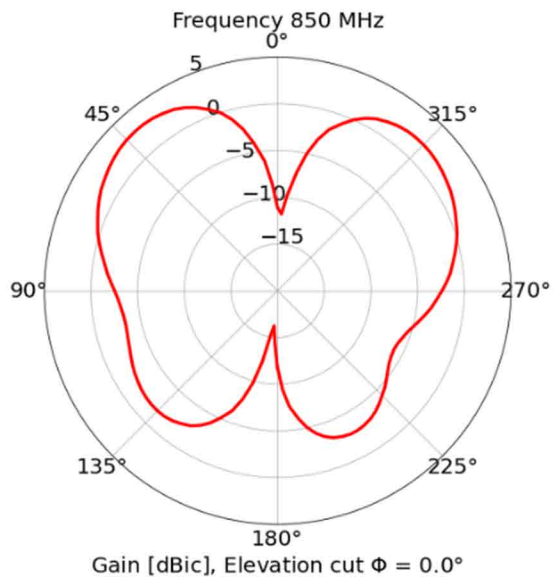
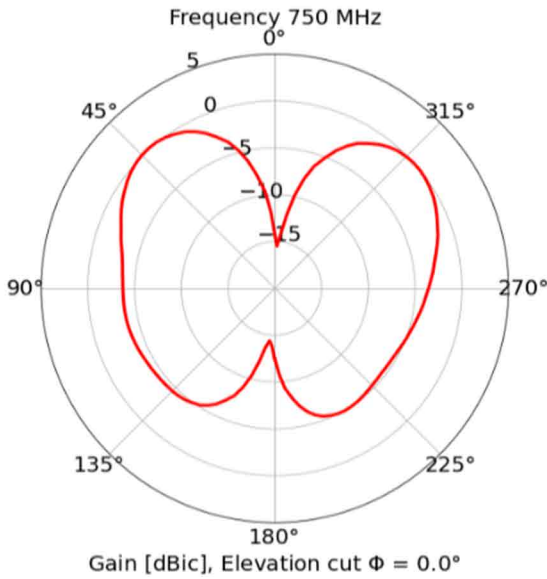
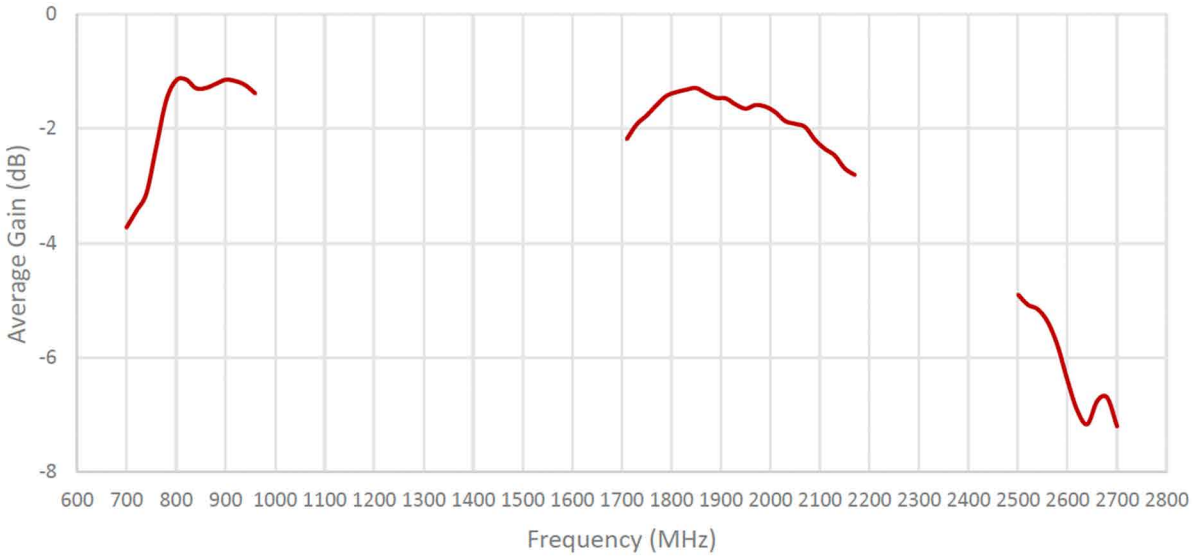
- CELLULAR / LTE bands (698-960 MHz - 1710-2170 MHz - 2500-2700 MHz)
- Easy mounting: Connector Mount
- Low Profile
- Wide band Antenna
- Dimensions 44 × 19.1 × 9 mm

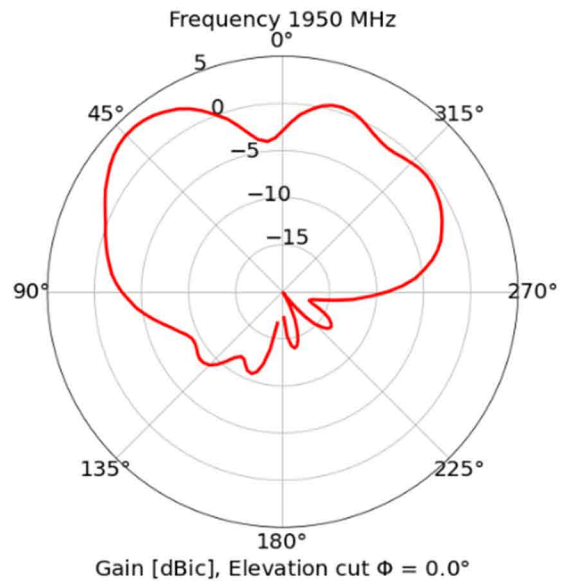
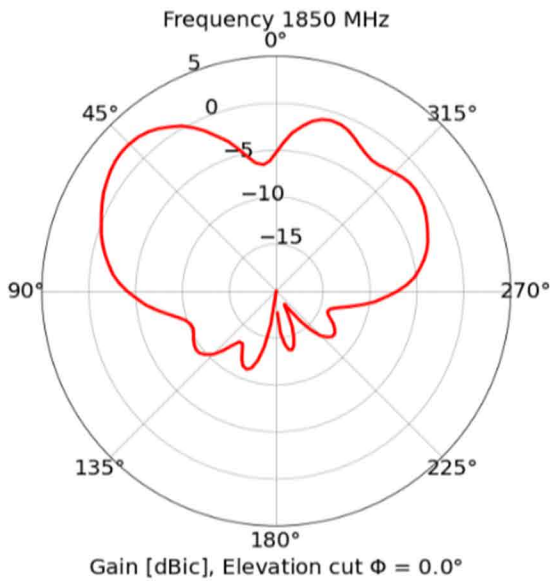
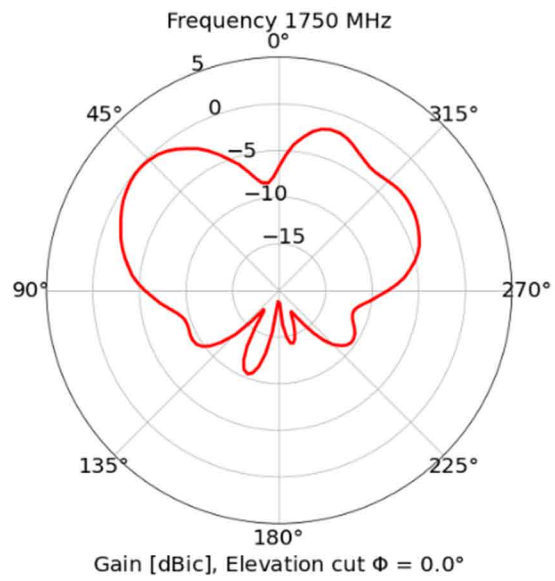
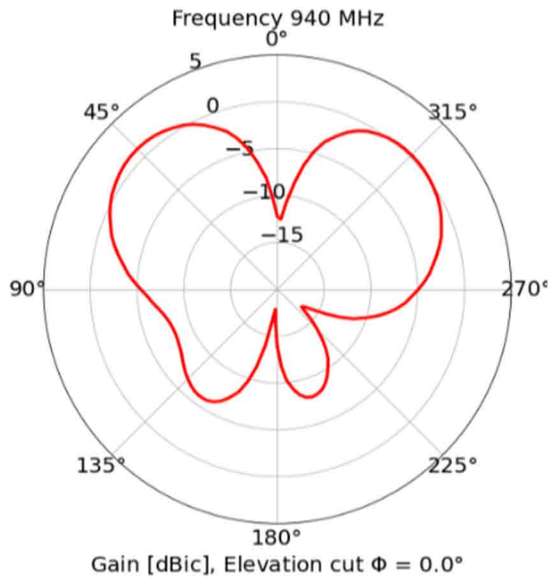
## Applications

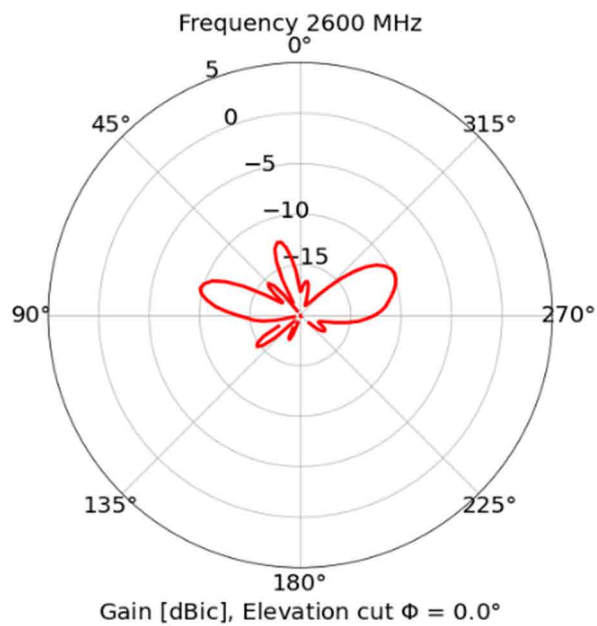
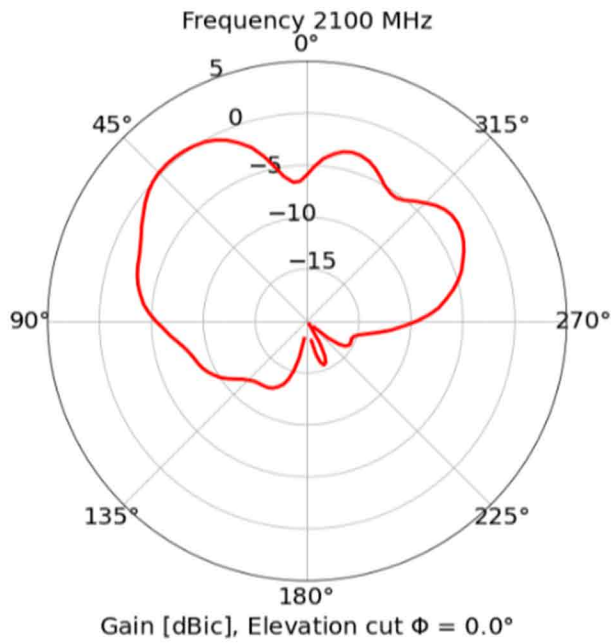
- Public transportation
- Video transmission
- IoT
- Fleet Management
- Gateway/ Routers
- Public transportation
- Autonomous cars



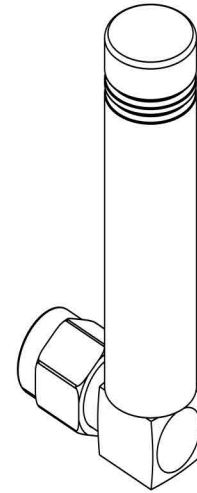
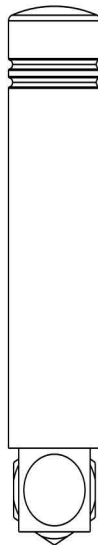
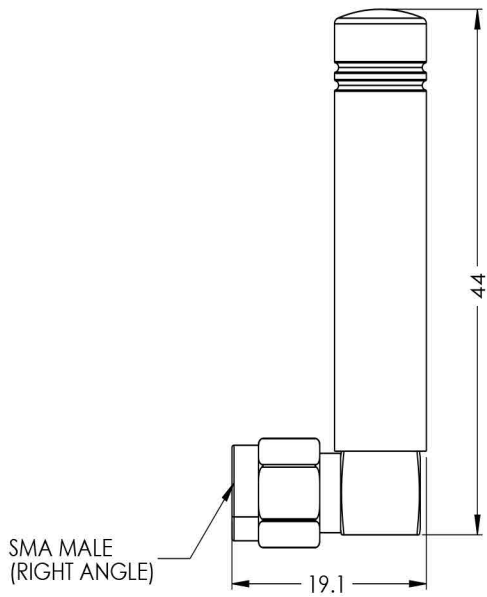
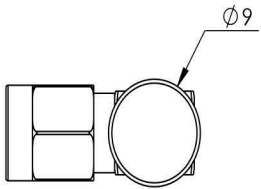








DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-10-14	MP



NOTES:

- FREQUENCY: 698MHZ-960MHZ, 1710MHZ-2170MHZ, 2500MHZ-2700MHZ
  - MOUNTING TYPE: CONNECTOR MOUNT
- MATERIALS:
- RADOME: TPC-ET
- OPERATING TEMPERATURE: -40°C ~ +85°C
  - STORAGE TEMPERATURE: -40°C ~ +85°C

ITEM 100-00303 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-10-14	MP

100-00303 CONFIGURATION TABLE		
DASH NO	CONNECTOR TYPE	RADOME COLOR
-01	SMA MALE (RIGHT ANGLE)	BLACK

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	MP 2022-10-14
TOLERANCES:	CHECKED	ZX 2022-10-19
FRACTIONAL ±	ENG APPR.	NPC 2022-10-31
ANGULAR: MACH ± .5° BEND ±	MFG APPR.	
ONE PLACE DECIMAL ± 1.0	Q.A.	
TWO PLACE DECIMAL ± .50		
INTERPRET GEOMETRIC TOLERANCING PER:		
	CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.	
THIRD ANGLE PROJECTION		
DO NOT SCALE DRAWING		

MAXTENA, INC		
TITLE: 100-00303 MEA-3L-SMA-LP		
SIZE	DWG. NO.	REV
<b>B</b>	<b>117-00679-01</b>	<b>A</b>
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1

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