



MIA-HB-698-2700

HIGH PERFORMANCE EMBEDDED 4G LTE ANTENNA

Ordering Part #: 100-00160-01



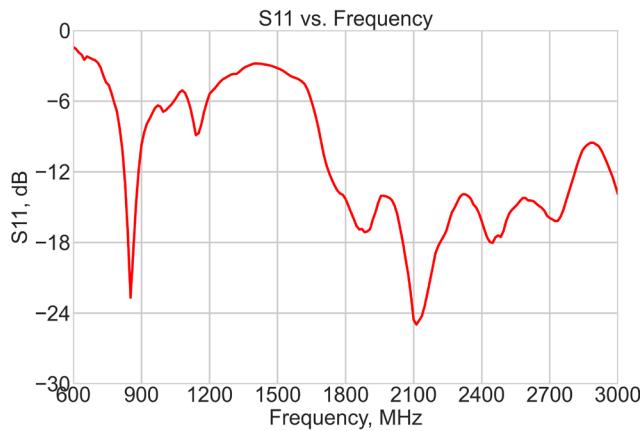
Description

MIA-HB-698-2700 is an ultra-wideband hexa band embedded antenna that provides broad coverage 690MHz- 960MHz / 1710MHz-2700MHz and is compatible with most 4G LTE, 3G and 2G standards. This is a high efficiency high gain antenna ideally suited for LTE connectivity such as gateways, healthcare, HD video, routers, access points, repeaters and other LTE applications. The antenna is built out of flex material and is very easy to integrate. The antenna size is 120mm x 30mm featuring a coax cable and U. FL connector.

Electrical Specifications

Parameter	Design Specifications		
Frequency	698 MHz ~ 960 MHz	1710 MHz ~ 2170 MHz	
	2500 MHz ~ 2700 MHz		
Dimension	120 x 30 x 0.15 mm		
VSWR	< 3.5		
Polarization	Linear		
Axial Ratio	3 typ.		
Impedance	50 Ohm		
Operating Temperature	from -40°C to +85°C		
Termination	Ag (Environmentally-Friendly Pb Free)		
Efficiency (%)	698 ~ 960 MHz	40 ~ 80	
	1710 ~ 2170 MHz	70 ~ 90	
	2500 MHz ~ 2700 MHz	70	

S11 vs. Frequency plot



Features

- 4G LTE 690MHz – 960MHz | 1710MHz – 2700MHz
- Ground plane Independent
- High Efficiency across all bands
- Flexible embedded antenna

Applications

- IOT
- Smart City
- Vending Machines
- HD Video
- Gateways

8 7 6 5 4 3 2 1

DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-01-22	QZ

D

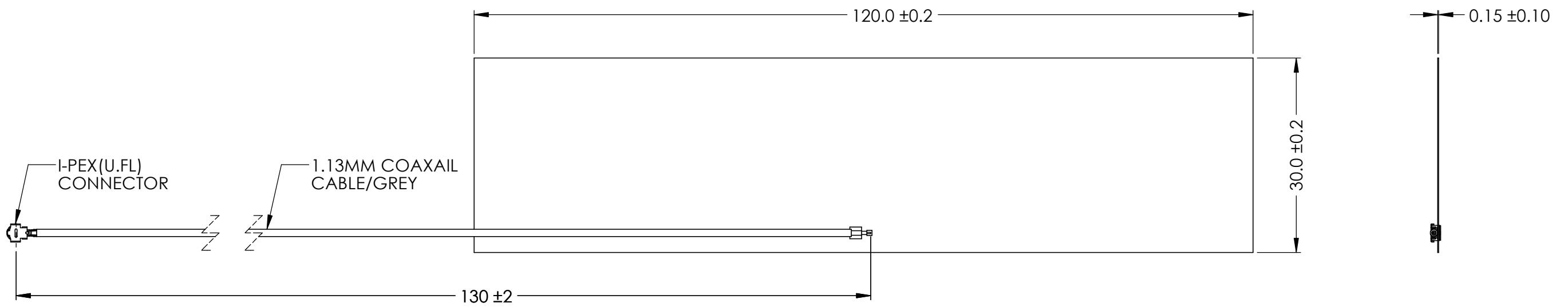
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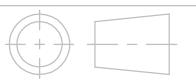
NOTES:

1. FREQUENCY: 698MHz~960MHz; 1710MHz~2170MHz; 2500MHz~2700MHz
2. VSWR: <3.5
3. POLARIZATION: LINEAR
4. IMPEDANCE: 50 OHM
5. CONNECTOR: I-PEX(U.FL)
6. OPERATING TEMPERATURE: -40~85 °C

ITEM 100-00160-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-01-19	QZ

PROPRIETARY AND CONFIDENTIAL

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	QZ	2020-01-22
TOLERANCES:	CHECKED	ZX	2020-01-28
FRACTIONAL ±	ENG APPR.	NPC	2020-01-28
ANGULAR: MACH ± .5° BEND ±	MFG APPR.		
INTEGER ± 2	Q.A.		
ONE PLACE DECIMAL ± 1.0			
TWO PLACE DECIMAL ± .50			
INTERPRET GEOMETRIC TOLERANCING PER:			
			
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING			

CAD MAINTAINED.
CHANGES SHALL BE
INCORPORATED BY
THE DESIGN ACTIVITY.

SIZE	DWG. NO.	REV
B	117-00398-01	A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1

MAXTENA, INC
100-00160-01
MIA-HB-698-2700
700-2700MHZ, 130mm Coax U.FL

Mouser Electronics

Authorized Distributor

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