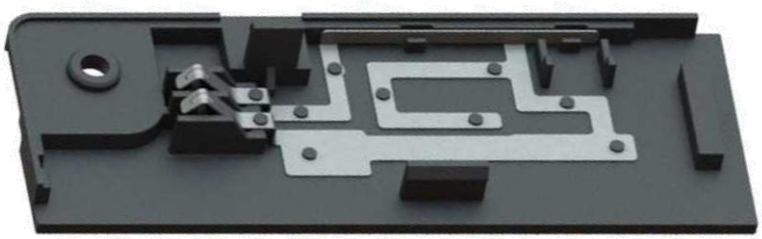
Document	Datasheet
Type	Carrier & Metal stamped type
Application	4G LTE
Part No.	AMAPMLG010
Revision	0

DATASHEET



Application

4G Antenna (699 ~ 960MHz, 1710 ~ 2690MHz)

Features

Carrier & Metal stamped Antenna
70.0*25.0*7.8 mm^3
RoHS Compliant

AMOTECH

Notes
The contents of this datasheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order.

Revision History

Rev. No	Date	Title	Contents	Page
0	2020. 03. 25		New Published	

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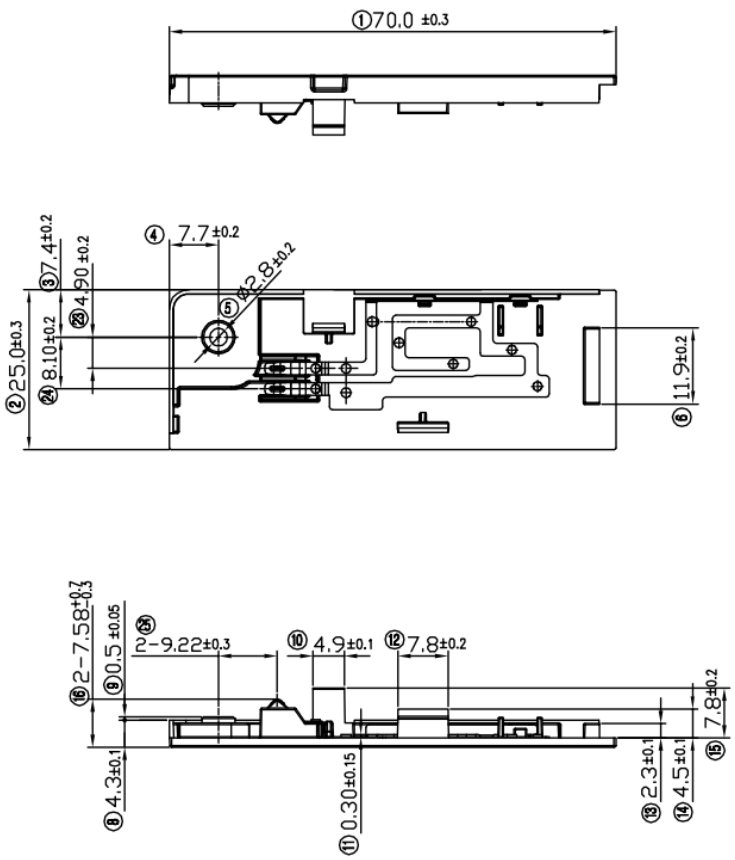
1. Specifications

1.1 Electrical Specifications

No	Item	Spec.	Remark
1	Avg. Gain	typically -4.5 dBi	Measured data
3	Peak Gain	Typically -1.25 dBi	
4	Radiation Pattern	Omni-directional	
5	Impedance	Normal 50 Ω	

1.2 Mechanical Specifications

No	Part	Specification
1	Injection Carrier	70*25*7.8 (1.5T), Polycarbonate + ABS, GP5008BFH (black)
2	Press Antenna	35.3*15.2(0.2T), STS301 3/4H, 띠 도금



1.3 Description of Part Number

P/N : AMA (1) PM (2) LG010 (3)

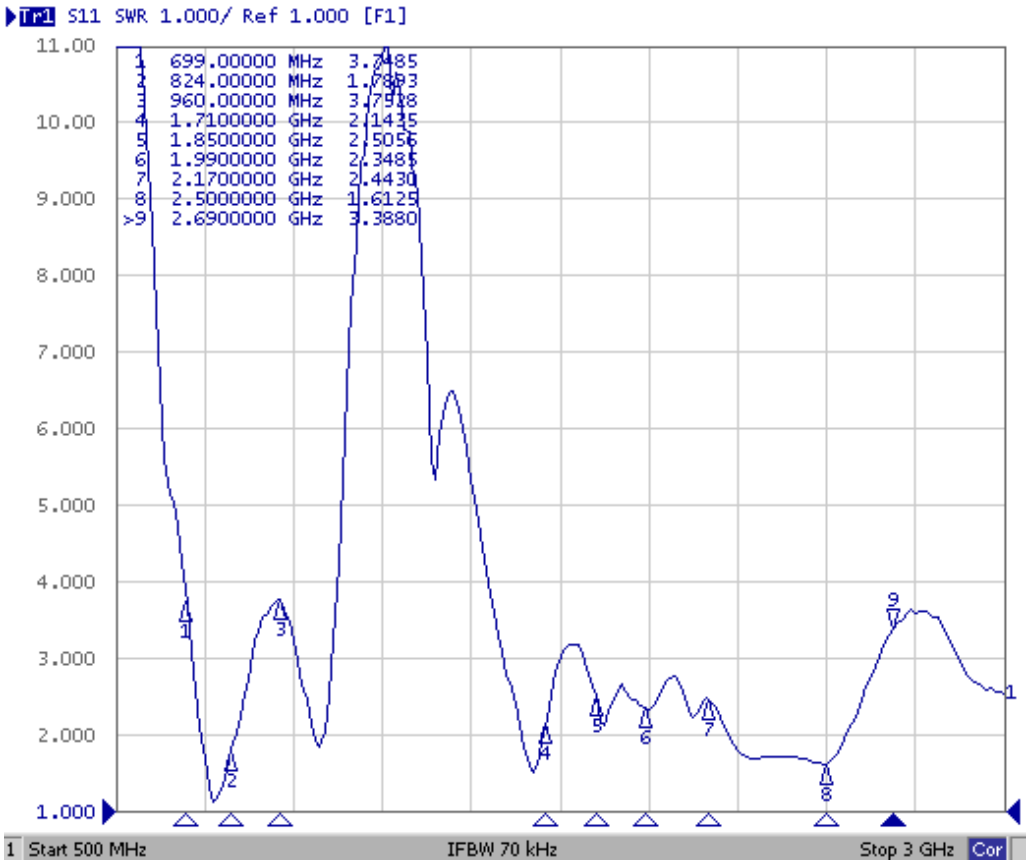
(1) : AMOTECH Antenna

(2) : Carrier & Metal stamped type

(3) : Product serial number

2. Measurement Result

2.1 VSWR



[VSWR on the set]

2.2 Antenna Gain

Frequency [MHz]	Avg. gain [dBi]	Peak gain [dBi]
699	-4.5	-1.8
824	-4.5	-1.3
960	-2.8	0.7
1710	-5.1	-1.9
2170	-3.1	0.9
2690	-6.6	-1.2

3. Reliability

No	Item	Test Condition	Test Requirements
1	Physical Dimension	Refer to drawing	1. No more dimension
2	Resistance to Solvents	Using Toluene	1. No visual damage
3	High Temperature Exposure	Temperature : 125℃, Time: 1000Hrs.	1. No visual damage 2. Within electrical spec (VSWR)
4	Temperature Cycling	-55℃/30min ↔ 125℃/30min, 1000 Cycle	1. No visual damage 2. Within electrical spec (VSWR)
5	Biased Humidity	Humidity : 85%RH, Temperature : 85℃, Time : 1000hrs.	1. No visual damage 2. Within electrical spec (VSWR)
6	Mechanical Shock	Peak value100g's, Duration 6 ms, Three axis ※MIL-STD-202 METHOD 213 Condition C	1. No visual damage 2. Within electrical spec (VSWR)
7	Vibration	5-55-5㎐, 1 Octave/min, Amp.=1.5mm, acceleration=2g, Crossover Freq.=18㎐	1. No visual damage 2. Within electrical spec (VSWR)
8	ESD	ESD level : 8KV, Mode : contact discharge, 100 times	1. No visual damage 2. Within electrical spec (VSWR)
9	Electrical Characterization	Refer to specifications	1. Within electrical spec (VSWR)