

Customer : LG

Approval No.		ISSUE	1.1
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Specifications for Approval

Product Name : 17Z90U ANT ANTENNA ASSEMBLY

Vendor Model Name : LUXSHARE-ICT

Customer Part No. : EAA30099801

Vendor P/N : L1LRF019-CS-H

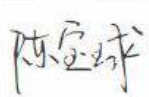
Condition : 1. _____

2. _____

3. _____

4. _____

The product above is approved.

LG MC Approval	Category	Checked	Reviewed	Agreed	Approved
	Name				
	Signature				
Vendor Approval	Category	Designed	Checked	Agreed	Approved
	Name	郭林	李攀	杨小锋	陈宝球
	Signature				

Vendor Name :LUXSHARE-ICT

Address :BaiYun Road, Industrial Park West Area, Ji An City, JiangXi Province,343100, China

XianMao Road, Economic Development Zone, Bo zhou City, Anhui Province, 236800, China

Building A, West Sanyo New Industrial Zone, oyster I, Shajing Street, Baoan District, S henzhen,China

P/N:L1LRF019-CS-H	SPECIFICATION MODEL NAME:17Z90U ANT ASSY	REV.NO:1.1
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History of Revision

Revision	Date	Item	Contents of Revision Change	Basis
ISSUE 1.0	2025.08.01		Initial Release	NA
ISSUE 1.1	2025.09.09		New printed content on PCB	7.9.10.18



17Z90U ANT ASSY

Product Feature and Image

PRODUCT NAME	17Z90U ANT ASSY	
Customer P/N	EAA30099801	
Vendor P/N	L1LRF019- CS- H	
NET WEIGHT	1.90g+/- 10%	
SIZE	CABLE	L=292.5MM L=335.5MM
	PCB	L*W=76.5*6.00MM

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SPECIFICATION

Test items

1) Apperance and structure check

Check item	Judgement
Visual Inspection	The shape, structure, and color should be consistent with the limit sample and related specifications
Standard	These defects should not be allowed such as damage, correosion, sink, scratches, etc.

2) Dimension Check : Measuring improtant dimensions

Dimensions should meet the requirements of the acknowledgment

3) Mate / Unmating Force : mate connector with a suitable gauge at rate of 25±3 mm/min.

measure force when gauge reaches surface of connector.

mating Force	unmating Force
30N (or 3000g) Max	5 ~ 20 N (or 500g ~ 2000g) 3 ~ 20 N (or 300g ~ 2000g) Final 30 Cycles

4) Disintegration : Parts are allowed to be chiseled, not inserted, dirty etc.

soldering state of PCB like cold welding, less welding, over welding are not allowed. The length of the parts should be suitable.

and parts can not be touched each other.

5) Tape adhesion : Double Sided tape should be not slipped

should be satisfied standard specification.

6) VSWR

Test equipment : Network Analyzer equipment

Frequency(unit MHz)	MAIN	AUX
VSWR	1.400-2.070GHz > 4.2 2.850-3.700GHz < 4.5 6.300-8.000GHz < 3	700.000MHz- 1.000GHz > 7.3 2.650- 3.100GHz > 2.8 6.500- 8.000GHz < 3

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SPECIFICATION

Test items

7) Gain

Test equipment : Network Analyzer equipment

Frquency(MHZ)	Efficiency(%)
2400	>30
2450	>30
2500	>30
5150	>30

8) Thermal Shock

Condition	Temperature : 85°C (30min), -40°C (30min) 10 Cycles. Being Placed 2 Hours
Judgement	Product’s mechanism and VSWR should be OK.

9) High Temperature

Condition	Temperature : 80°C, 96H, Being Placed 2 Hours.
Judgement	Product’s mechanism and VSWR should be OK.

10) Low Temperature

Condition	Temperature : -20°C, 96H, Being Placed 2 Hours.
Judgement	Product’s mechanism and VSWR should be OK.

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SPECIFICATION		
Test items		
12) High Temperature and humidity test		
Condition	Temperature : 40°C, Humidity : 90 – 95% 96H, Being Placed 2 Hours.	
Judgement	Product’s mechanism and VSWR should be OK.	
13) Virbration Test		
Condition	Class V3 [0.27 Grms, 10-500Hz, 50min, Per 3 axes (X,Y,Z)]	
Judgement	Product’s mechanism and VSWR should be OK.	
14) Drop Test		
Condition	Height : 100cm to Iron Plate (Thickness : 5mm or more) one edge/Three corners/six faces are once total : 10 times	
Judgement	there should be no crack and or damage parts.	

LG-Z17906													
Frequency	Spec	MAIN Open			MAIN Close			AUX Open			AUX Close		
		Peak Gain(dB)	Efficiency(dB)	Efficiency(%)	Peak Gain(dB)	Efficiency(dB)	Efficiency(%)	Peak Gain(dB)	Efficiency(dB)	Efficiency(%)	Peak Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	-5	4.8	-4.3	37%	-1.5	-8.2	15%	3.0	-4.3	37%	-0.9	-7.8	17%
2450	-5	5.4	-4.0	40%	-1.8	-7.5	18%	3.1	-4.3	37%	-0.6	-7.0	20%
2500	-5	4.7	-4.4	36%	-1.4	-7.7	17%	3.1	-4.3	37%	-0.6	-7.8	17%
5150	-5	2.7	-4.9	32%	0.7	-7.1	20%	4.9	-4.2	38%	-2.8	-8.3	15%
5250	-5	1.9	-5.1	31%	0.8	-7.8	17%	5.3	-4.9	32%	-3.1	-8.0	16%
5350	-5	3.7	-4.4	37%	-0.6	-7.8	17%	4.6	-4.1	38%	-0.8	-7.4	18%
5470	-5	4.0	-4.4	36%	0.7	-5.8	26%	4.6	-4.2	38%	0.6	-7.3	18%
5600	-5	2.8	-5.4	29%	-0.2	-8.1	16%	3.2	-5.4	29%	-0.8	-7.6	17%
5725	-5	2.8	-5.6	27%	0.8	-7.7	17%	4.7	-4.9	33%	0.0	-7.3	18%
5785	-5	2.7	-5.5	28%	0.1	-7.4	18%	4.1	-5.7	27%	0.0	-8.0	16%
5800	-5	2.9	-5.0	32%	0.0	-7.5	18%	4.2	-5.5	28%	0.4	-7.7	17%
5850	-5	1.9	-4.3	37%	0.6	-7.9	16%	4.7	-4.4	36%	0.4	-7.5	18%
5925	-5	2.1	-4.9	32%	2.3	-7.2	19%	6.2	-4.1	38%	0.1	-8.2	15%
6025	-5	-0.1	-6.5	22%	0.9	-7.7	17%	5.9	-5.4	29%	-1.2	-8.0	16%
6125	-5	1.5	-6.0	25%	0.8	-6.9	21%	6.8	-4.5	36%	0.2	-7.9	16%
6225	-5	-0.6	-6.5	23%	0.2	-6.5	22%	6.2	-5.4	29%	0.3	-7.8	17%
6325	-5	-1.3	-6.9	20%	-1.7	-8.1	16%	5.1	-5.1	31%	-0.1	-7.6	17%
6425	-5	0.5	-5.6	27%	0.1	-7.4	18%	3.3	-5.1	31%	3.0	-6.8	21%
6525	-5	0.1	-5.6	28%	0.5	-7.1	20%	2.5	-5.9	26%	2.0	-6.0	25%
6625	-5	2.6	-4.9	32%	-0.3	-7.4	18%	3.4	-4.8	33%	2.0	-6.3	24%
6725	-5	2.0	-4.3	37%	-0.5	-7.7	17%	2.9	-4.9	33%	1.9	-6.3	23%
6825	-5	2.6	-4.6	35%	0.7	-6.9	21%	3.8	-4.9	32%	2.3	-6.1	24%
6925	-5	2.2	-5.2	30%	1.4	-7.1	20%	3.9	-5.1	31%	3.1	-6.1	25%
7025	-5	-0.7	-6.0	25%	2.3	-6.8	21%	4.6	-4.8	33%	2.6	-6.5	22%
7125	-5	1.0	-6.6	22%	-0.2	-8.0	16%	4.5	-4.9	32%	1.4	-7.5	18%
2.45G													
5.15G													
5.6G													
5.85G													
5.925G													
6.525G													
7.025G													