

深圳市安普盛科技有限公司

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Data Sheet

编号	N20220909
品牌	HMCORE
品名	安普盛 HLR17
安普盛型号	HLR17
制作	WU
审核	Xzz Siya
批准	
日期	2022.09.09

客户承认签印	
日期	

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=±
 ANGLES = ± HOLE DIA = ±



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SCALE: N/A UNIT: mm
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 DESIGNED BY: WU APPROVED BY: Sky

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TITLE: HLR17 Data Sheet	DOCUMENT NO.	N20220909	SPEC REV.
			P1

HLR17 Data Sheet

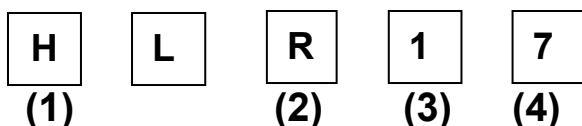
1. FEATURES:

- Light weight, compact
- K-BAND,
- Low cost
- Hidden mounting capability
- Operating Temp. : -20°C~+70°C
- Maintains operation through harsh weather conditions (temperature, light, rain)

2. APPLICATIONS:

- Building and smart home (IoT)
- Lighting control
- Air conditioning
- Industrial robotics (Manufacturing robotics)

3. PRODUCT IDENTIFICATION

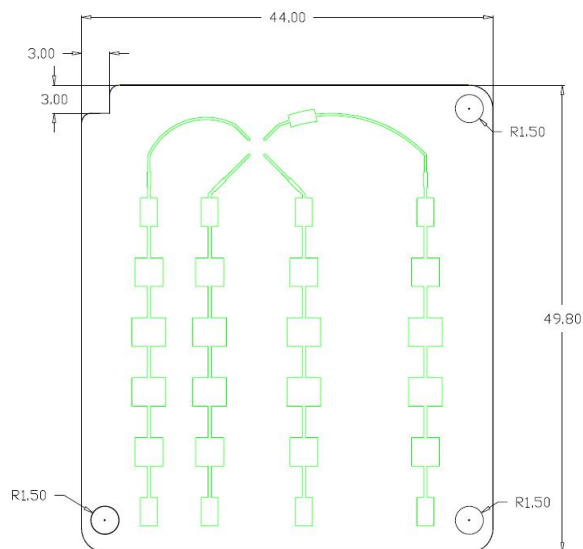


- (1) Honmax
- (2) Radar
- (3) (4) PartNo: 17

4. SHAPE AND DIMENSIONS:

SIZE: 44x49.8 Unit: mm

Plate thickness: 1.6 mm



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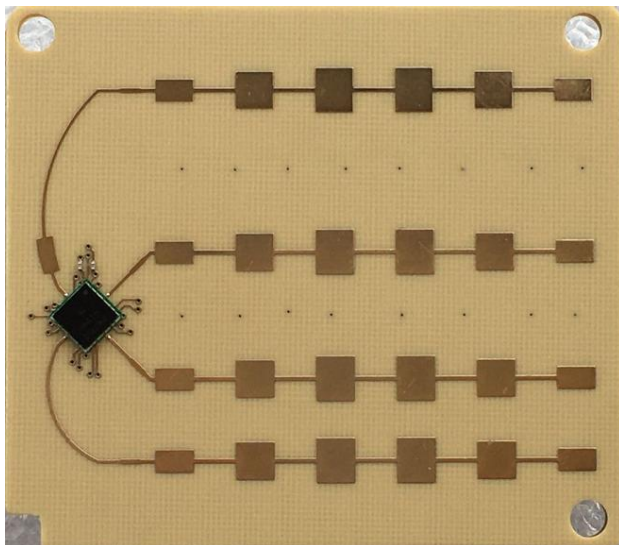
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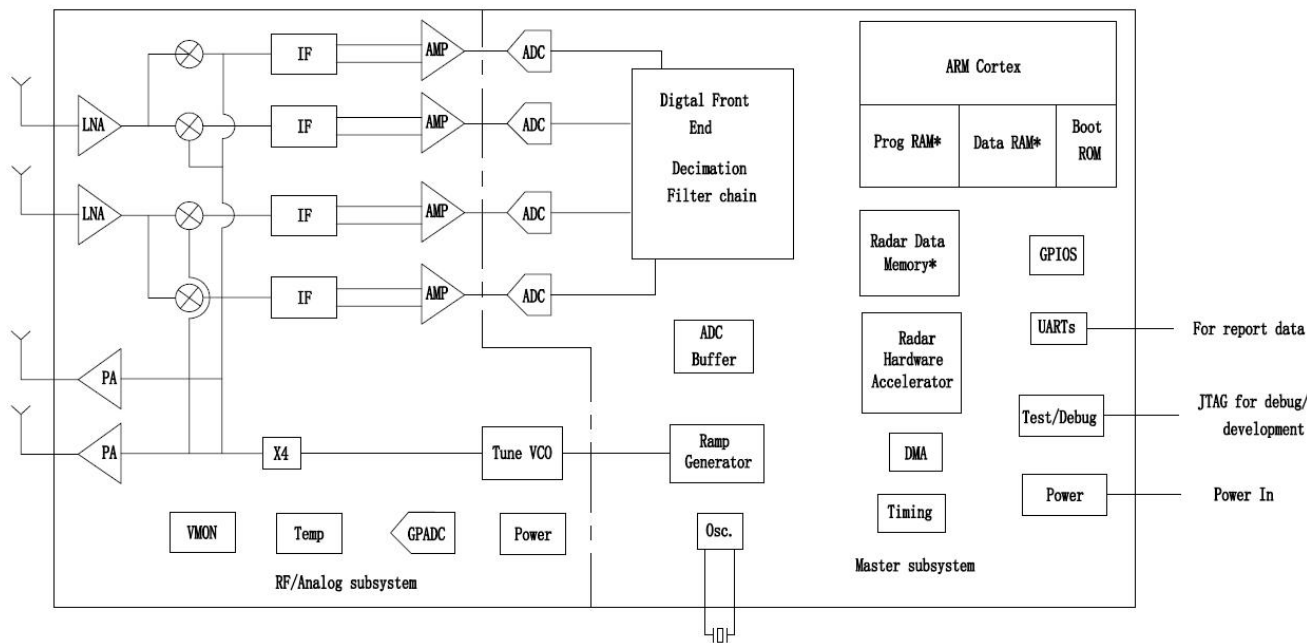
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PHOTO:



Block Diagram:



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		P1

5. Electrical Characteristics:

Characteristic	CONDITIONS	MIN	TYP	MAX	UNITS
System					
transmit frequencies	delivery condition	K-BAND			
TX1 output power	@25°C		5		dBm
TX2 output power	@25°C		5		dBm
Modulation	FMCW		-	-	-
Update time			100		ms
Communication Interface			UART	9600 bps	
Radar					
detection distance	@0 dBsm	0.5	-	6	m
detection azimuth angle	<4m	-50	-	+50	deg
	>4m	-35	-	+35	deg
Maximum number of detection targets		-	-	3	

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DOCUMENT NO. N20220909

SPEC REV.
P1

Antenna					
-6dB 波束	horizontal (-6dB)	-	±60	-	deg
	vertical (-6dB)	-	±13	-	deg
Other					
supply voltage		4.5	5	12	V DC
current		-	<150	-	mA
weight		-	9	-	g

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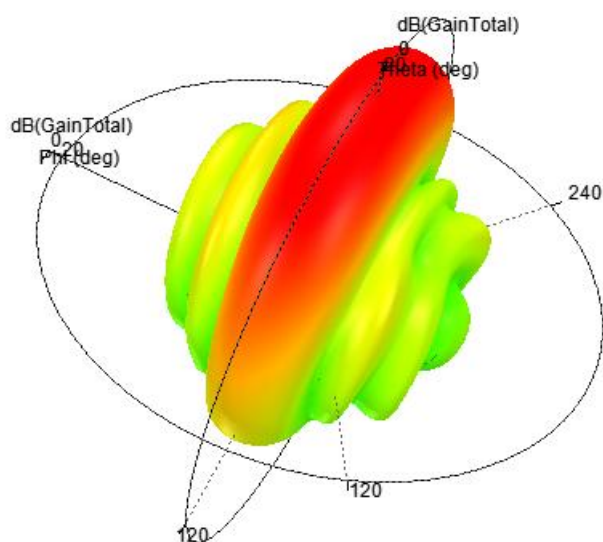
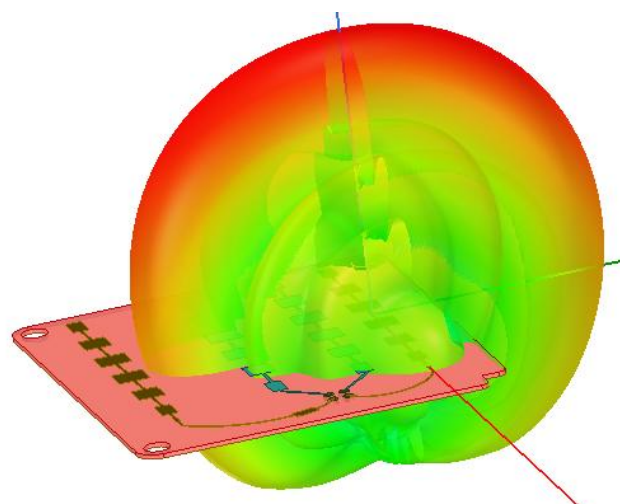
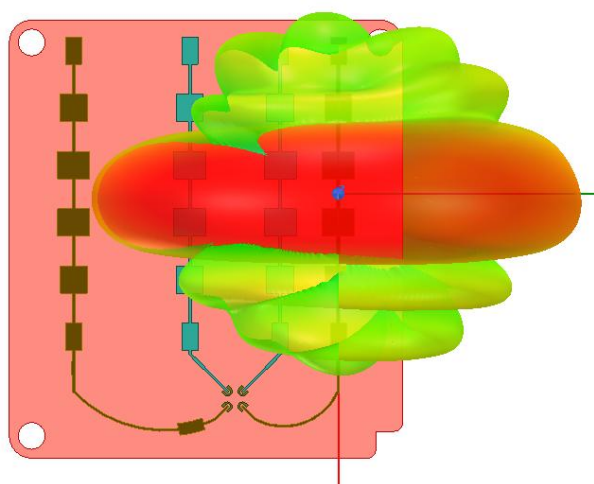
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-6dB 波束:



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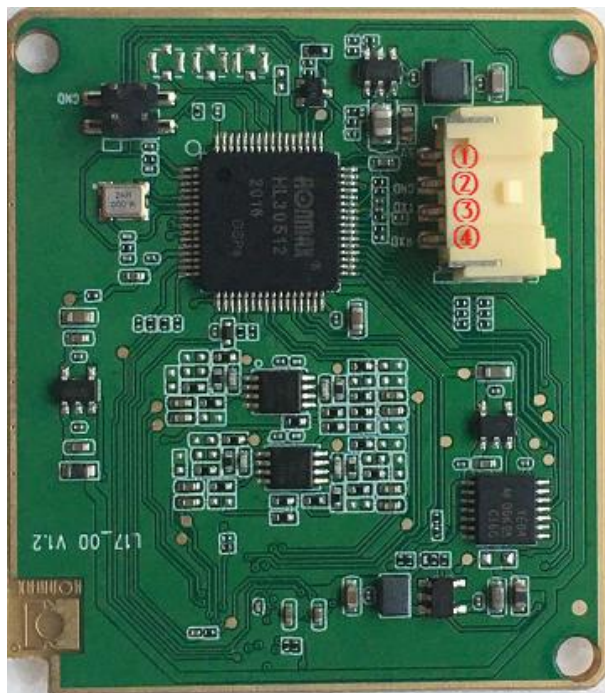
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SPEC REV.
P1

PIN INTERFACE



PIN#	DESCRIPTION	IN/OUT	COMMENT
① PIN1	Power Supply	Input	4.5V-12V(建议5V)
② PIN2	GND	-	GND
③ PIN3	TXD	Output	TTL 3V3 (兼容5V)
④ PIN4	RXD	Input	TTL 3V3 (兼容5V)

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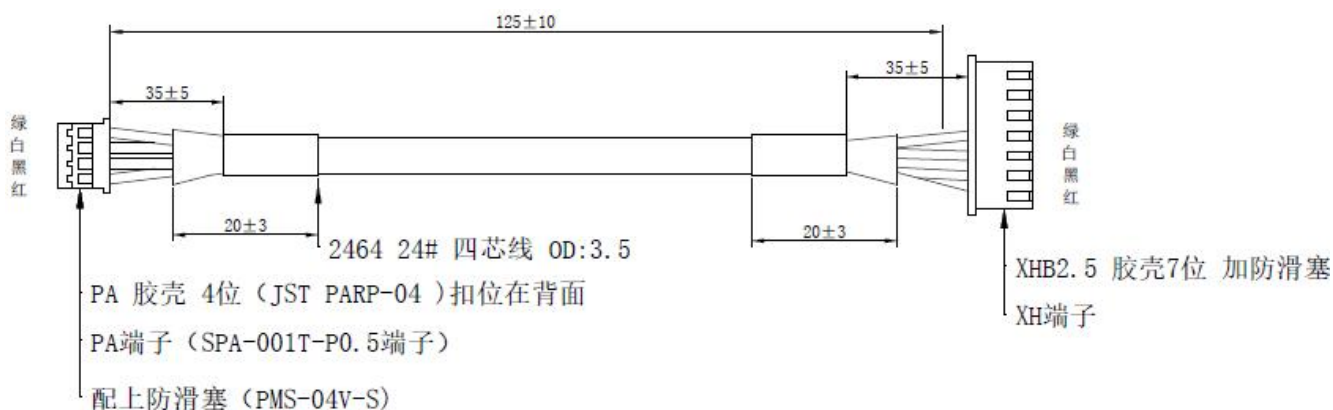
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6. Connecting line Description:



7. Environmental Characteristics

(1) Storage Condition:

The temperature should be within 0 ~ 30°C and humidity should be less than 60% RH. The product should be used within 1 year from the time of delivery.

(2) Operating Temperature Range

Operating temperature range : -20°C to +70°C.

8. Rev history

Rev	Subjects	Author	Update time
2022/09/09	First published	WU	2022-09-09

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