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## Rubber Duck Antennas



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### LAMBDOID WIRELESS COMMUNICATIONS

**Address:** 647/2, 11<sup>th</sup> Main, 5<sup>th</sup> Block, Jayanagar, Bengaluru 560 041. INDIA.

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# Rubber Duck Antennas

## 868 MHz Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-868-RD-RA-SMA-PLUG-01	
Frequency (MHz)	865 - 868MHz	
Gain	~1.75 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA Plug Right Angle	
Mechanical Specification		Salient Features
Dimension (mm)	50 x $\phi$ 10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- Straight version available.</li> <li>- RP-SMA (Plug) connector available.</li> </ul>
Housing	Plastic / Black	
Weight	< 10g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- Sub GHz</li> <li>- Smart Meters</li> </ul>
Humidity	5 - 75%	

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# Rubber Duck Antennas

## 860 – 928 MHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-868-RD-RA-SMA-PLUG-02	
Frequency (MHz)	860 – 928 MHz	
Gain	2.85 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 25 <sup>0</sup>	
Connector	SMA (M)	
Mechanical Specification		
Dimension (mm)	195 x $\phi$ 13 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> </ul>
Housing	Plastic / Black	
Weight	< 20 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- Sub GHz</li> <li>- Smart Meters</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 868 MHz Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-868-RD-SCREW-02	
Frequency (MHz)	865-868 MHz	
Gain	~2 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW (degree)	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	-	
Mechanical Specification		Salient Features
Dimension (mm)	50 x $\phi$ 10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- High quality</li> <li>- Low cost</li> <li>- Stainless steel screw</li> </ul>
Mounting	Screw	
Weight	<10 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- Smart Meters</li> <li>- Sub-GHz</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 868 MHz Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-868-RD-ST-SMA-PLUG-01	
Frequency (MHz)	865 - 868MHz	
Gain	~1.8 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA Plug	
Mechanical Specification		
Dimension (mm)	50 x $\phi$ 10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> </ul>
Housing	Plastic / Black	
Weight	< 10 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- Sub GHz</li> <li>- Smart Meters</li> </ul>
Humidity	5 - 75%	

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# Rubber Duck Antennas

## GSM Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-GSM-RD-RA-SMA-PLUG-02	
Frequency (MHz)	824 – 960 MHz & 1710 – 1980 MHz	
Gain	1.2 / 2 dBi	
Impedance (Ω)	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA Plug	
Mechanical Specification		Salient Features
Dimension (mm)	50 x φ10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- Straight version available</li> <li>- RP-SMA Plug connectors available</li> </ul>
Housing	Plastic / Black	
Weight	< 10g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- GSM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## GSM Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-GSM-RD-ST-SMA-PLUG-02	
Frequency (MHz)	824 – 960 MHz & 1710 – 1980 MHz	
Gain	1.2 / 2 dBi	
Impedance (Ω)	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA Plug	
Mechanical Specification		
Dimension (mm)	50 x φ10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- Straight version available</li> <li>- RP-SMA Plug connectors available</li> </ul>
Housing	Plastic / Black	
Weight	< 10g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- GSM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## GSM Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-GSM-RD-RA-SMA-PLUG-03	
Frequency (MHz)	824 – 960 MHz & 1710 – 1980 MHz	
Gain	3 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 30 <sup>0</sup> / 40 <sup>0</sup>	
Connector	SMA Plug Right Angle	
<b>Mechanical Specification</b>		
Dimension (mm)	110 x $\phi$ 10 mm	<ul style="list-style-type: none"> <li>- Compact size</li> <li>- Low cost</li> <li>- Gold plated connectors</li> </ul>
Housing	Plastic / Black	
Weight	< 15 g	
<b>Environmental Specification</b>		<b>Applications</b>
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- GSM</li> </ul>
Humidity	5 – 75%	



# Rubber Duck Antennas

## GSM / 3G Applications



**LAMBDOID**  
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Technical Specification		Photograph / Drawing
Model Number	LWC-GSM-RD-RA-SMA-PLUG-05	
Frequency (MHz)	824 – 960 MHz & 1710 – 2170 MHz	
Gain	4 / 5 dBi	
Impedance (Ω)	50	
VSWR	< 2.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360°; V: 35° / 25°	
Connector	SMA Plug	
Mechanical Specification		
Dimension (mm)	200 x φ10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> </ul>
Housing	Plastic / Black	
Weight	<30 g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> <li>- GSM</li> <li>- 3G</li> </ul>
Humidity	5 – 75%	

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# Rubber Duck Antennas

## 2G / 3G / 4G Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-4G-RD-RA-SMA-PLUG-05	
Frequency (MHz)	698-960MHz & 1710-2690 MHz	
Gain	2/5 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 3.0	
Polarization	Vertical	
Power Handling (W)	50	
HPBW	H: 360 <sup>0</sup> ; V: 30 <sup>0</sup> / 40 <sup>0</sup>	
Connector	SMA-Plug Right Angle	
Mechanical Specification		
Dimension (mm)	200 x $\phi$ 10mm	<ul style="list-style-type: none"> <li>- Compact Size.</li> <li>- High quality, low Cost</li> <li>- RP-SMA(Plug) connector available.</li> </ul>
Housing	Plastic / Black	
Weight	< 30g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- 2G</li> <li>- 3G</li> <li>- 4G</li> <li>- ISM</li> </ul>
Humidity	5 – 95%	

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# Rubber Duck Antennas

## 2.4 GHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-ST-SMA-PLUG-02	
Frequency (MHz)	2400 – 2483 MHz	
Gain	2 dBi	
Impedance (Ω)	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	5	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA (M)	
Mechanical Specification		Salient Features
Dimension (mm)	50 x φ10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- High quality, low cost</li> <li>- Straight version available.</li> <li>- RP-SMA (Plug) available.</li> </ul>
Housing	ABS / Black	
Weight	10 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-SMA-PLUG-02	
Frequency (MHz)	2400 – 2483 MHz	
Gain	2 dBi	
Impedance (Ω)	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	5	
HPBW	H: 360°; V: 40°	
Connector	SMA (M)	
Mechanical Specification		
Dimension (mm)	55 x φ10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- High quality, low cost</li> <li>- Straight version available.</li> <li>- RP-SMA (Plug) available.</li> </ul>
Housing	ABS / Black	
Weight	10 g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-SMA-PLUG-03	
Frequency (MHz)	2400 – 2483 MHz	
Gain	3 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	5	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA (Plug)	
Mechanical Specification		
Dimension (mm)	140 x $\phi$ 10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- RP-SMA (Plug) connector available.</li> </ul>
Housing	ABS / Black	
Weight	< 20 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-ST-RPSMA-PLUG-02	
Frequency (MHz)	2400 – 2483 MHz	
Gain	2 dBi	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	5	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	SMA (M)	
Mechanical Specification		Salient Features
Dimension (mm)	50 x φ10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- High quality, low cost</li> <li>- Right Angle version available.</li> <li>- SMA (Plug) available.</li> </ul>
Housing	ABS / Black	
Weight	10g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-SMA-PLUG-05	
Frequency (MHz)	2400 – 2483 MHz	
Gain	5 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	5	
HPBW	H: 360 <sup>0</sup> ; V: 25 <sup>0</sup>	
Connector	SMA (Plug)	
<b>Mechanical Specification</b>		
Dimension (mm)	210 x $\phi$ 13 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- RP-SMA (Plug) available.</li> </ul>
Housing	Plastic / Black	
Weight	< 30g	
<b>Environmental Specification</b>		<b>Applications</b>
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-RPSMA-PLUG-05	
Frequency (MHz)	2400 – 2483MHz	
Gain	5 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 25 <sup>0</sup>	
Connector	RP-SMA Plug	
Mechanical Specification		
Dimension (mm)	200 x $\phi$ 13 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- SMA Plug available.</li> </ul>
Housing	ABS / Rubber	
Weight	<30g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 95%	



# Rubber Duck Antennas

## 2.4GHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-SMA-PLUG-09	
Frequency (MHz)	2400 – 2483 MHz	
Gain	9 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 2.0	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 16 <sup>0</sup>	
Connector	SMA Plug	
Mechanical Specification		Salient Features
Dimension (mm)	380 x $\phi$ 13 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> <li>- RP-SMA (Plug) available</li> </ul>
Housing	Plastic / Black	
Weight	< 60 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications



**LAMBDOID**  
WIRELESS

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-RPSMA-PLUG-09	
Frequency (MHz)	2400 – 2500MHz	
Gain	9 dBi	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 16 <sup>0</sup>	
Connector	RP-SMA Plug	
Mechanical Specification		
Dimension (mm)	380 x φ13 mm	<ul style="list-style-type: none"> <li>- Compact size</li> <li>- High quality, low cost</li> <li>- SMA Plug available.</li> </ul>
Housing	ABS / Black	
Weight	< 60 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- WiFi</li> <li>- Bluetooth</li> <li>- Zigbee</li> <li>- ISM</li> </ul>
Humidity	5 – 75%	

# Rubber Duck Antennas

## 2.4GHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-RD-RA-RPSMA-PLUG-03	
Frequency (MHz)	2400 – 2483 MHz	
Gain	3 dBi	
Impedance ( $\Omega$ )	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 <sup>0</sup> ; V: 40 <sup>0</sup>	
Connector	RP-SMA Plug	
Mechanical Specification		Salient Features
Dimension (mm)	140 x $\phi$ 10 mm	<ul style="list-style-type: none"> <li>- Compact Size</li> <li>- Low Cost</li> </ul>
Housing	Plastic / Black	
Weight	< 20 g	
Environmental Specification		Applications
Operational Temperature	-30 <sup>0</sup> to 60 <sup>0</sup> C	<ul style="list-style-type: none"> <li>- Sub GHz</li> <li>- Smart Meters</li> </ul>
Humidity	5 – 75%	