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Helix Antennas

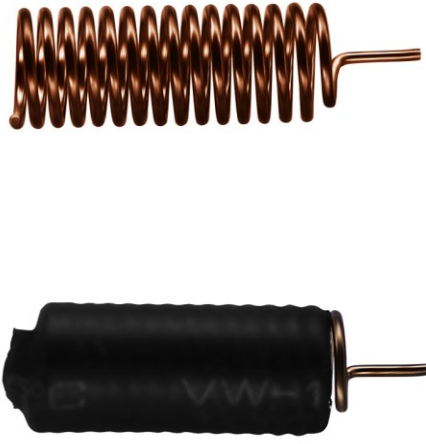


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LAMBDOID WIRELESS COMMUNICATIONS


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Tel: +91 80 2659 5337; **Email:** info@lambdoid.net; **Website:** www.lambdoid.net

Technical Specification		Photograph / Drawing
Model Number	LWC-433-HELIX-15	
Frequency (MHz)	433 MHz	
Gain	Approx 0.5 dBi (depends on PCB ground plane)	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360° ; V: 30°	
Connector	Direct Solder	
Mechanical Specification		Salient Features
Dimension (mm)	27 x ϕ 9 mm	<ul style="list-style-type: none"> - Compact Size - Low Cost - Right Angle version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Passivated)	
Weight	< 1.2g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - Sub GHz - Smart Meters
Humidity	5 – 95%	

Helix Antenna

865 – 868 MHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-868-HELIX-ST-09	
Frequency (MHz)	865 – 868 MHz	
Gain	~ 1.5 dBi (depends on PCB ground plane)	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360° ; V: 30°	
Connector	Direct Solder	
Mechanical Specification		Salient Features
Dimension (mm)	20 x ϕ 5 mm	<ul style="list-style-type: none">- Compact Size- Low Cost- Right Angle version available on request- Tin and Nickel plated for corrosion-free- Antennas with rubber sleeve to protect from sparks
Housing	PB (Passivated)	
Weight	< 1g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none">- Sub GHz- Smart Meters- Long Range (LoRa)- Low Power Radio (LPR)
Humidity	5 – 95%	

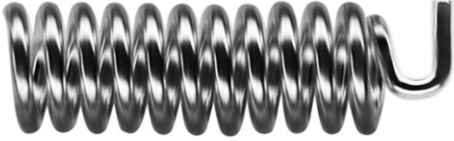
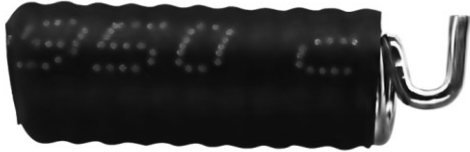
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Helix Antenna

865 – 868 MHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-868-HELIX-COATED-HSS-03	 
Frequency (MHz)	865 – 868 MHz	
Gain	Approx 1 dBi (depends on PCB ground plane)	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360° ; V: 30°	
Connector	Direct Solder	
Mechanical Specification		Salient Features
Dimension (mm)	20 x ϕ 5 mm	<ul style="list-style-type: none"> - Compact Size - Low Cost - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Passivated)	
Weight	< 1g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - Sub GHz - Smart Meters - Long Range (LoRa) - Low Power Radio (LPR)
Humidity	5 – 95%	

Helix Antenna

865 – 868 MHz Applications



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Technical Specification		Photograph / Drawing
Model Number	LWC-868-HELIX-RA-09	
Frequency (MHz)	865 – 868 MHz	
Gain	~ 1.5 dBi (depends on PCB ground plane)	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360°; V: 30°	
Connector	Direct Solder	
Mechanical Specification		
Dimension (mm)	18 x φ6 mm	<ul style="list-style-type: none"> - Compact Size - Low Cost - Straight version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Passivated)	
Weight	< 1g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - Sub GHz - Smart Meters - Long Range (LoRa) - Low Power Radio (LPR)
Humidity	5 – 95%	


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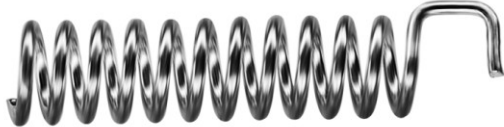
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Helix Antenna

865 – 868 MHz Applications

Technical Specification		Photograph / Drawing
Model Number	LWC-868-HELIX-RA-09	
Frequency (MHz)	865 – 868 MHz	
Gain	~ 1.5 dBi (depends on PCB ground plane)	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360°; V: 30°	
Connector	Direct Solder	
Mechanical Specification		
Dimension (mm)	18 x φ6 mm	<ul style="list-style-type: none"> - Compact Size - Low Cost - Straight version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Passivated)	
Weight	< 1g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - Sub GHz - Smart Meters - Long Range (LoRa) - Low Power Radio (LPR)
Humidity	5 – 95%	

Technical Specification		Photograph / Drawing
Model Number	LWC-868-HELIX-TIN-ST-07	
Frequency (MHz)	865 – 868 MHz	
Gain	~ 1.2 dBi (depends on GND plane on PCB)	
Impedance (Ω)	50	
VSWR	< 1.6	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360°; V: 30°	
Connector	Direct Solder	
Mechanical Specification		
Dimension (mm)	22 x φ8 mm Approx	<ul style="list-style-type: none"> - Compact Size - Low Cost - Right angle version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Tin plated)	
Weight	< 2g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - Sub GHz - Smart Meters - Long Range (LoRa) - Low Power Radio (LPR)
Humidity	5 – 95%	

Technical Specification		Photograph / Drawing
Model Number	LWC-868-HELIX-TIN-RA-HSS-11	
Frequency (MHz)	865 – 868 MHz	
Gain	~ 1.2 dBi (depends on GND plane on PCB)	
Impedance (Ω)	50	
VSWR	< 1.3	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360°; V: 30°	
Connector	Direct Solder	
Mechanical Specification		
Dimension (mm)	27 x φ5 mm Approx	<ul style="list-style-type: none"> - Compact Size - Low Cost - Straight version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Tin plated)	
Weight	< 1g	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - Sub GHz - Smart Meters - Long Range (LoRa) - Low Power Radio (LPR)
Humidity	5 – 95%	

Technical Specification		Photograph / Drawing
Model Number	LWC-2400-HELIX-TIN-HSS-045	 
Frequency (MHz)	2400 – 2483 MHz	
Gain	1.8 dBi Approx (depends on GND plane on PCB)	
Impedance (Ω)	50	
VSWR	< 1.8	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360°; V: 30°	
Connector	Direct Solder	
Mechanical Specification		Salient Features
Dimension (mm)	18 x φ4 mm Approx	<ul style="list-style-type: none"> - Compact Size - Low Cost - Right angle version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Tin plated)	
Weight	< 750 mg	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - WiFi - Zigbee - Bluetooth - ISM
Humidity	5 – 95%	

Helix Antenna

2.4 GHz Applications



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Technical Specification		Photograph / Drawing
Model Number	LWC-2400-HELIX-TIN-RA-HSS-045	
Frequency (MHz)	2400 – 2483 MHz	
Gain	1.8 dBi Approx (depends on GND plane on PCB)	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360° ; V: 30°	
Connector	Direct Solder	
Mechanical Specification		
Dimension (mm)	17 x ϕ 4 mm Approx	<ul style="list-style-type: none"> - Compact Size - Low Cost - Straight version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Tin plated)	
Weight	< 750mg	
Environmental Specification		Applications
Operational Temperature	-30° to 60° C	<ul style="list-style-type: none"> - WiFi - Zigbee - Bluetooth - ISM
Humidity	5 – 95%	

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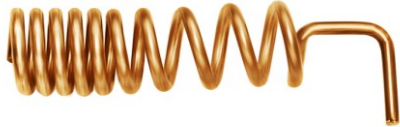
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Helix Antenna

GSM Applications



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Technical Specification		Photograph / Drawing
Model Number	LWC-GSM-HELIX-RA-01	
Frequency (MHz)	824 – 960 MHz & 1710 – 2170 MHz	
Gain	~ 1 dBi (depends on ground plane)	
Impedance (Ω)	50	
VSWR	< 2.2	
Polarization	Vertical	
Power Handling (W)	10	
HPBW	H: 360 ⁰ ; V: 40 ⁰	
Connector	Direct Solder	
Mechanical Specification		
Dimension (mm)	21.7 x ϕ 5 mm Approx	<ul style="list-style-type: none"> - Compact Size - Low Cost - Straight version available on request - Tin and Nickel plated for corrosion-free - Antennas with rubber sleeve to protect from sparks
Housing	PB (Passivated)	
Weight	< 0.6 gm	
Environmental Specification		Applications
Operational Temperature	-30 ⁰ to 60 ⁰ C	<ul style="list-style-type: none"> - GSM 800/900/1800/1900
Humidity	5 – 95%	

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