

Product: BODY ADYNA 5 (868/915)

Product Order Code:  
BM-02 RANGE

## Low Profile Body Mounted Antenna

868MHz & 915MHz  
ISM, LoRA, SIGFOX, ZigBee Bands

- Low profile 'manhole cover' robust antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via [enquiry@bloomice.com](mailto:enquiry@bloomice.com)



### Technical Data

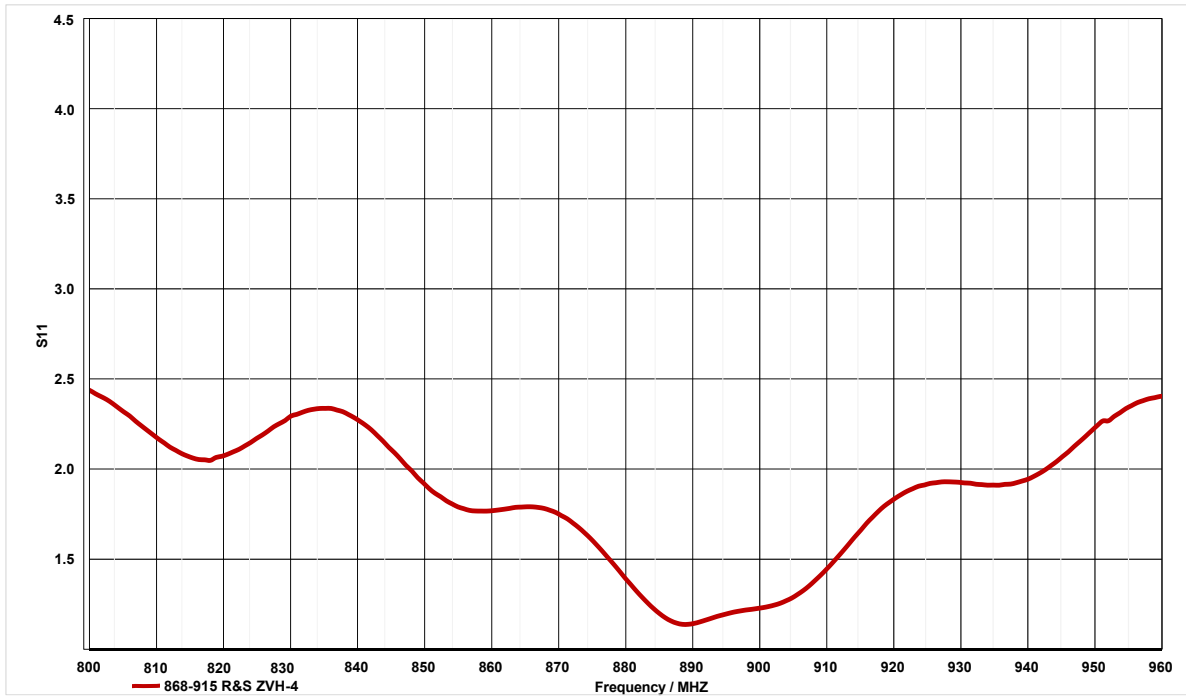
Dimensions	30.6mm (D) x 5.17 (H) Excluding 3M pad)	
Weight	35g	
Construction Materials	PC/ABS UL94 V0 UV Stable	
Mounting Arrangement	M10 Stainless Steel Split Nut combined with 3M Adhesive Pad Mounting on any surface (glass, metal, plastic etc.)	
Temperature Range	-40 – +85° C	
Protection Class	IP68 (IEC 60529)	
Frequency Range	ISM, LoRA, SIGFOX, ZigBee 868: ISM, LoRA, SIGFOX, ZigBee 915:	863 - 870 MHz 902 - 928 MHz
Impedance	50 Ohm	
Polarisation	Linear	
Gain	ISM, LoRA, SIGFOX, ZigBee 868: ISM, LoRA, SIGFOX, ZigBee 915:	@ 863 - 870 MHz: 0dBi @ 902 - 928 MHz: 0dBi
Radiation Pattern	Omni-Directional	
Max Power @ 30°C	ISM, LoRA, SIGFOX, ZigBee 868: ISM, LoRA, SIGFOX, ZigBee 915:	25 Watts @ 863 - 870 MHz 25 Watts @ 902 - 928 MHz
Return loss (VSWR)	≤ 1.9:1 (All Bands)	
Radiator Type	Folded Monopole	
Cable types Available	LL100 50 Ohm Low Loss / RG174 / RG316	
Cable Length	According to customer specification	
Connector	According to customer specification	
Test & Measurement Conditions	300mm x 300mm Ground Plane / 1000mm LL100 Cable	

dBi: Referenced to an isotropic radiator

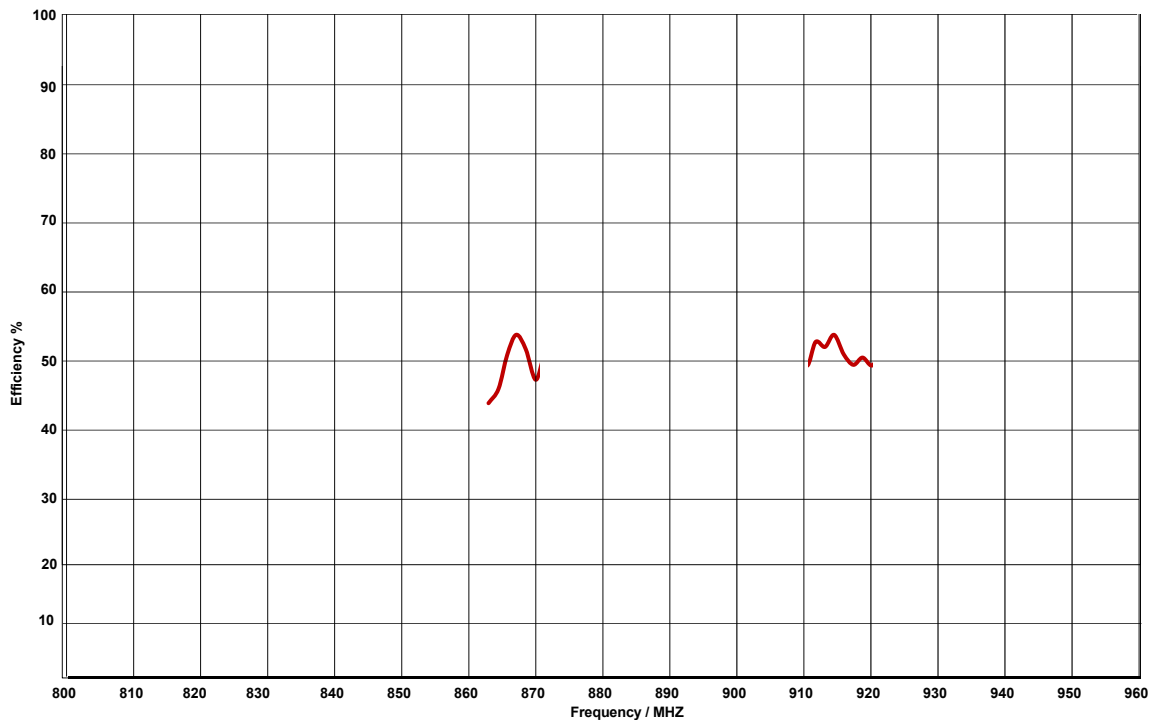
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**VSWR Data**



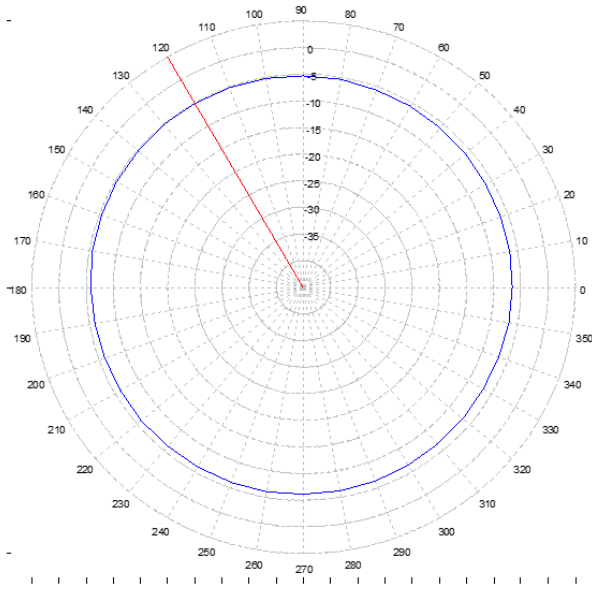
**Radiated Efficiency**



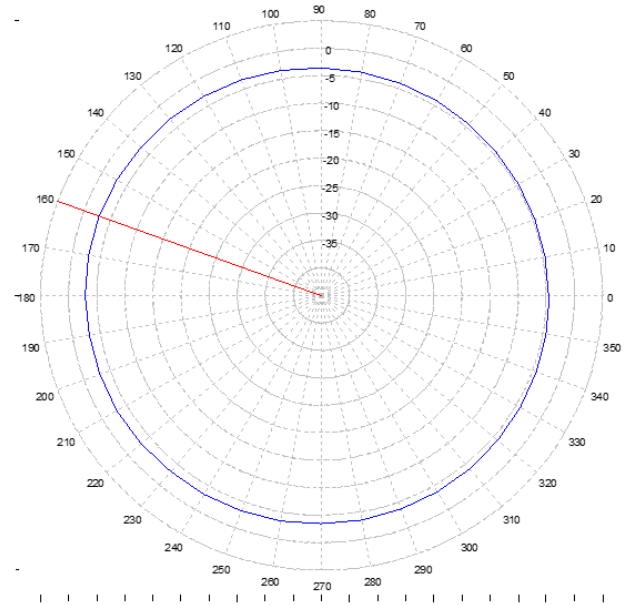
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### Radiating Patterns - X-Y Cut

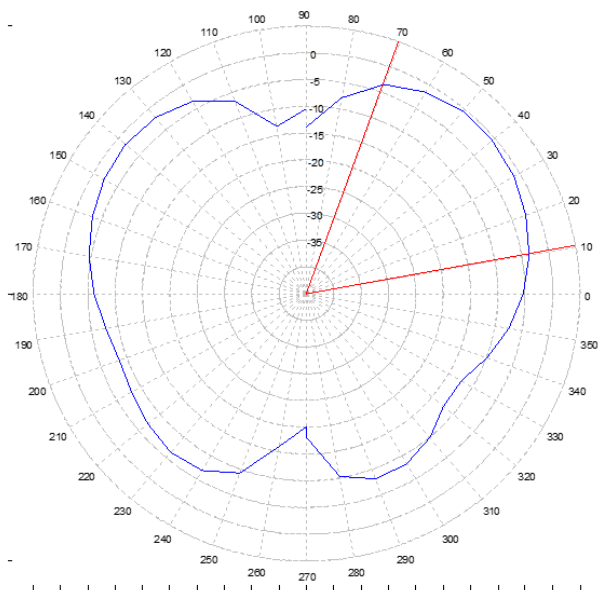


Name: BODY ADYNA 5 868/915  
Date/Time = 04/10/2020 07:48:32  
Plot Scale: 5 dB/Div  
Beamwidth: 360 Degrees  
Frequency: 868MHz  
MAX dB= -5.112 @120 Deg.  
MIN dB= -6.807 @ 330 Deg.  
dB Min/Max Delta = 1.6950 dB

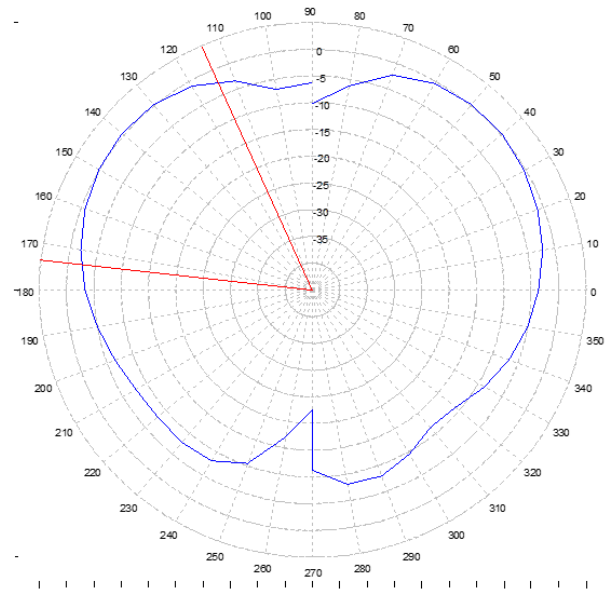


Name: BODY ADYNA 5 868/915  
Date/Time = 04/10/2020 08:36:04  
Plot Scale: 5 dB/Div  
Beamwidth: 360 Degrees  
Frequency: 915MHz  
MAX dB= -2.914 @160 Deg.  
MIN dB= -4.636 @ 20 Deg.  
dB Min/Max Delta = 1.7223 dB

### Radiating Patterns - X-Z Cut



Name: BODY ADYNA 5 868/915  
Date/Time = 04/10/2020 08:39:12  
Plot Scale: 5 dB/Div  
Beamwidth: 59.89 Degrees  
Frequency: 868MHz  
MAX dB= -0.621 @ 40 Deg.  
MIN dB= -20.15 @ 90 Deg.  
dB Min/Max Delta = 19.529 dB



Name: BODY ADYNA 5 868/915  
Date/Time = 04/10/2020 08:51:06  
Plot Scale: 5 dB/Div  
Beamwidth: 59.55 Degrees  
Frequency: 915MHz  
MAX dB= 0.4744 @ -220 Deg.  
MIN dB= -22.63 @ -90 Deg.  
dB Min/Max Delta = 23.110 dB

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**CAD Data**

