

ISM ANTENNA

Antenna 868 MHz Screw Mount R36, PUCK, SMA(m), RG174/5m, IP67, Rubber Protective Coating

AO-A868-36S5

SECTRON company offers a wide portfolio of ISM antennas with various versions differing in shape, level of gain and manner of attachment. SECTRON guarantees a compatible connection between an antenna and all antenna adaptors produced by SECTRON.



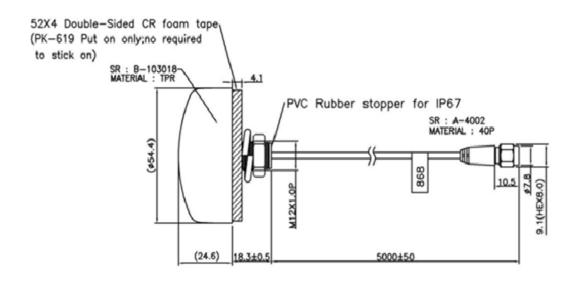
BENEFITS

- Low VSWR
- Anti-vandal design
- Optimized radiation pattern
- IP67
- Double sided CR foam tape

FEATURES AO-A868-36S5

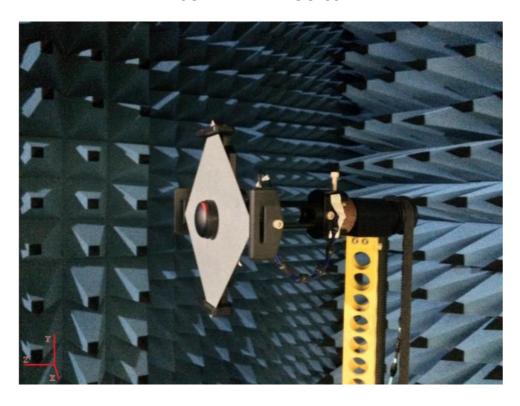
Technology	ISM/LoRa/Sigfox
Frequency bands	433/868 MHz
Bandwidth	<20 MHz/20MHz
Gain	-10/2.72 dBi
VSWR	<1.2:1/<1.8:1
Impedance	50 Ohm
Directivity	Omnidirectional
Beam angle	Attached graphs bellow
Polarization	Linear
Maximum input power	10 W
Power voltage	2.2-5 VDC
Dimensions	Ø 81.3 x 31.3 mm
Weight	152.27 g
Operating temperature	-40°C~+85 °C
Execution	External
Method of attachment	Screw mount
Cable type	RG174/U
The cable length	5 m
Connector type	SMA(m)
Certification	RoHS
IP code	IP67

DRAWING



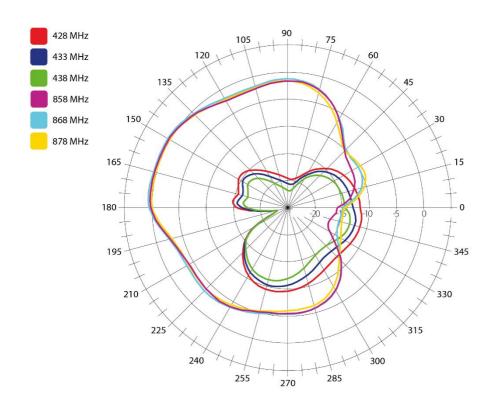
MEASUREMENT AO-A868-36S5

MEASUREMENT PROCESS

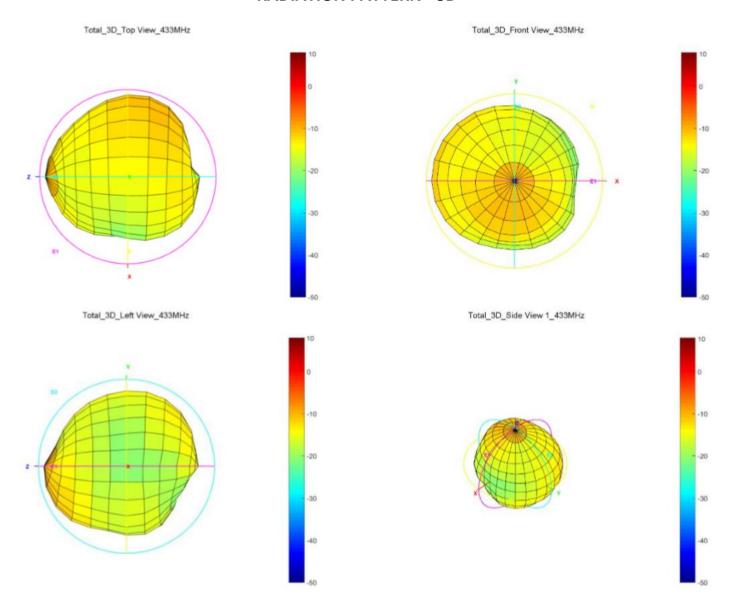


MEASURED GRAPHS

RADIATION PATTERN - 2D

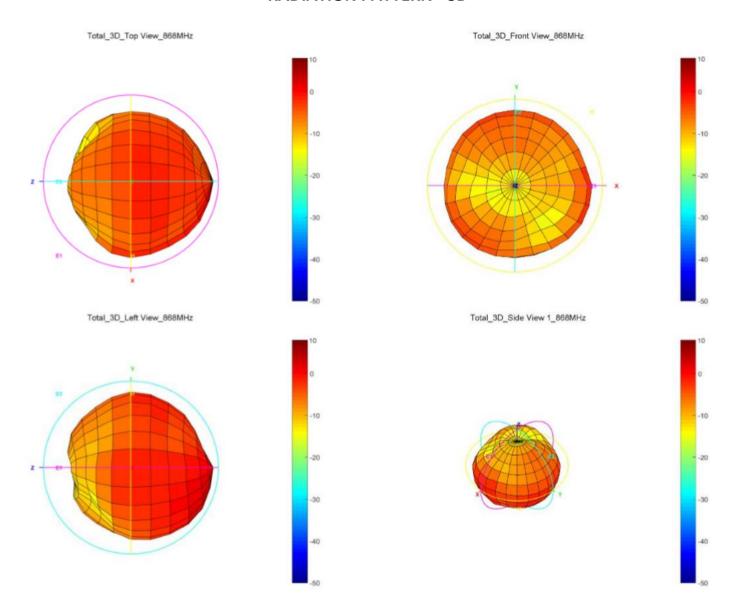


RADIATION PATTERN - 3D



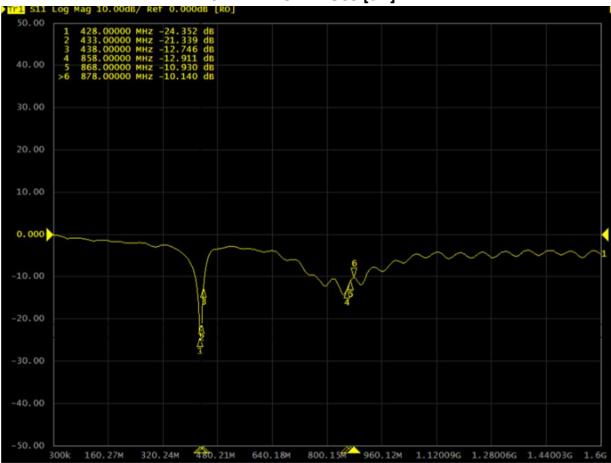
MEASURED GRAPHS AO-A868-36S5

RADIATION PATTERN - 3D

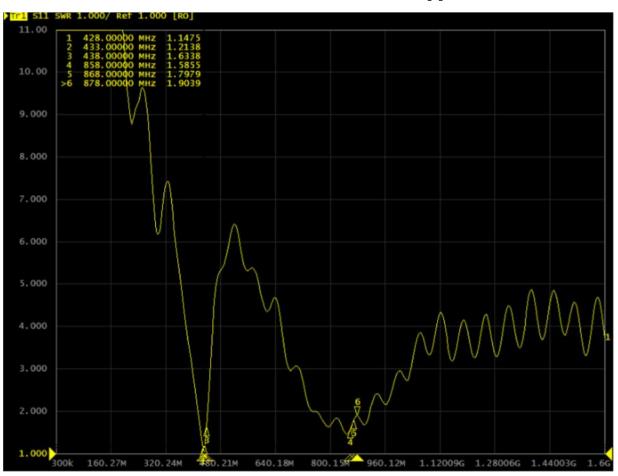


MEASURED GRAPHS AO-A868-36S5

S11 - RETURN LOSS [dB]



VSWR – STANDING WAVE RATIO [-]



Frequency [MHz]	Return Loss [dB]	VSWR	Efficiency [%]	Gain [dBi]
428	-24.35	1.14	4.57	-9.29
433	-21.33	1.21	3.65	-10.14
438	-12.74	1.63	2.86	-11.14
858	-12.91	1.58	43.45	2.24
868	-10.93	1.79	47.53	2.72
878	-10.14	1.9	43.45	2.4

VARIANTS

Different connector variants or cable lengths are available on request

CONTACTS

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