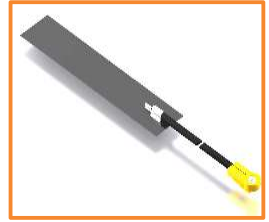
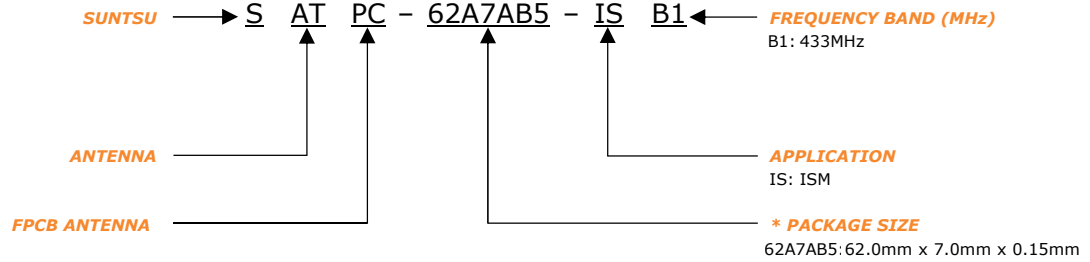


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> <li>- ISM Band</li> <li>- FPCB Type</li> <li>- Stable And Reliable Performance</li> <li>- 433MHz</li> <li>- Compact Size With Efficient Reception</li> </ul>	<ul style="list-style-type: none"> <li>- IOT Applications</li> <li>- Wireless Alarm And Security Systems</li> <li>- Smart Meters</li> <li>- Industrial Monitoring And Control</li> <li>- LPD433</li> </ul>



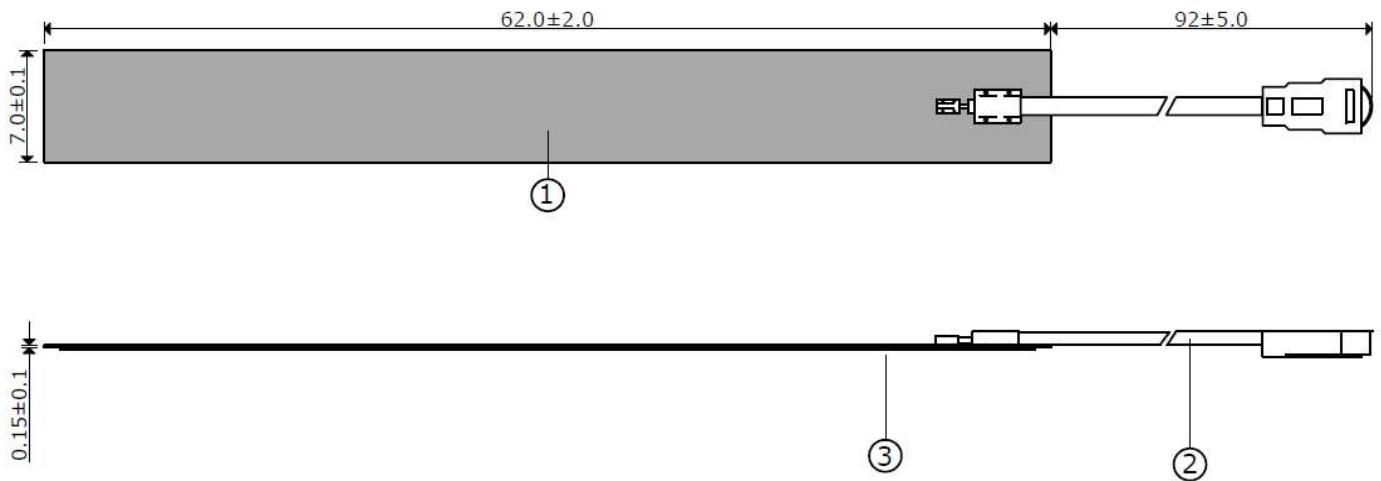
### PART NUMBERING GUIDE



\* Where letters denote decimal location A=.0, B=.1, C=.2, etc. Ex: B5=0.15, 3A5=3.05, 9A=9.0  
 To customize your parameters, contact a Suntsu representative.

ELECTRICAL PARAMETERS (At 25°C)	UNITS	MIN.	TYP.	MAX	REMARKS
Frequency Band	MHz		433		
Impedance	$\Omega$		50		
Polarization			Linear		
Peak Gain	dBi		-0.8		At 433MHz
Efficiency	%		36		At 433MHz
VSWR				2	At Center Frequency
Operating Temperature	°C	-40		85	

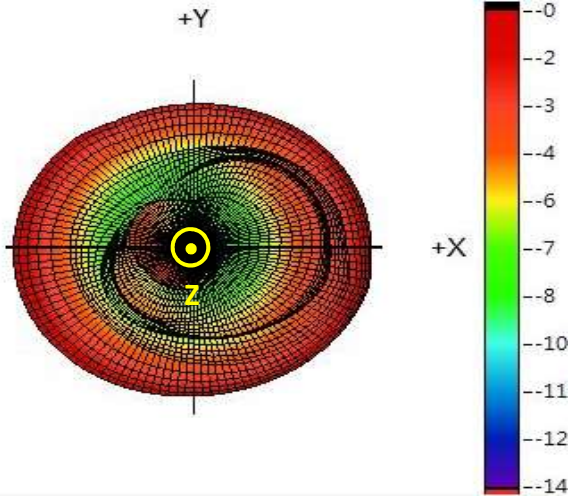
### OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



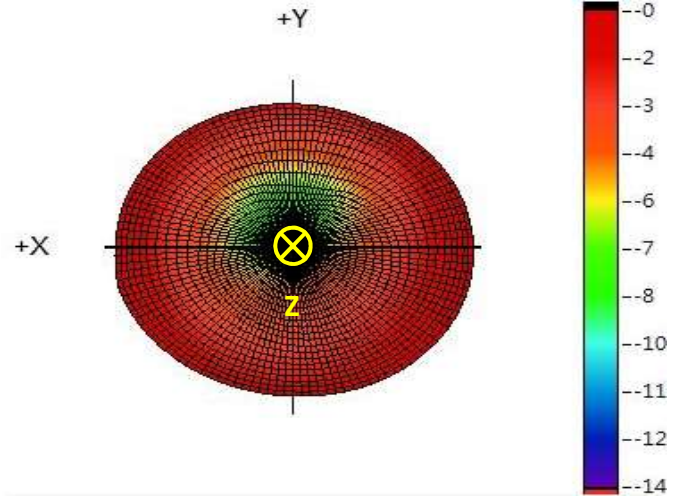
Item	Material
1	FR4 FPCB
2	IPEX Connector and Cable with OD of 1.13
3	Adhesive Tape

### 3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

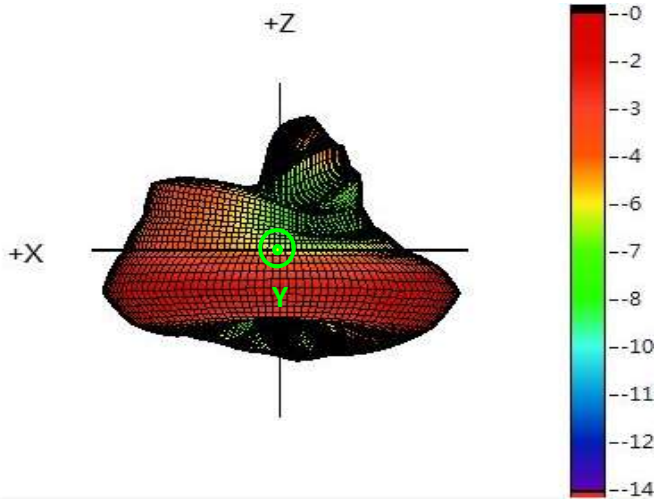
433MHz



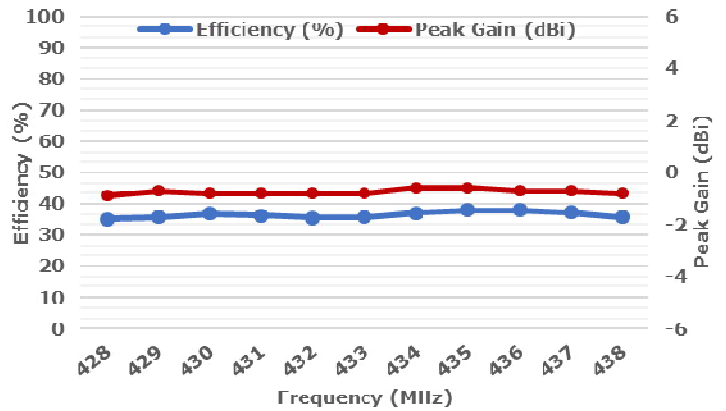
433MHz



433MHz



433MHz

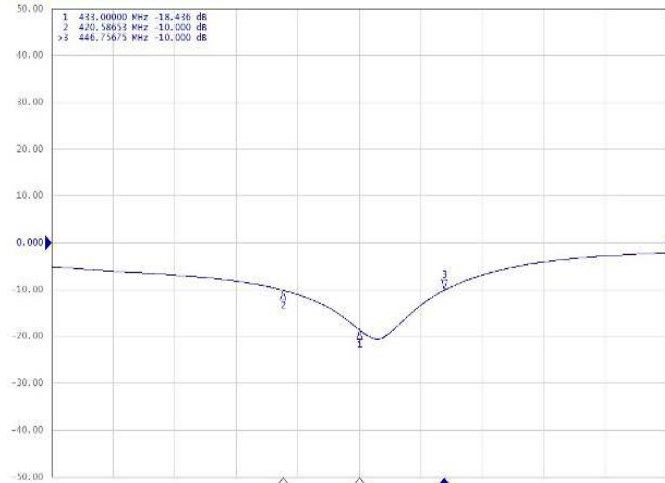


Freq.	428	429	430	431	432	433	434	435	436	437	438
Eff. (%)	35.1	35.6	36.8	36.3	35.5	35.6	37.00	37.90	37.9	37.3	35.7
P.G.	-0.9	-0.7	-0.8	-0.8	-0.8	-0.8	-0.6	-0.6	-0.7	-0.7	-0.8

### ELECTRICAL TEST

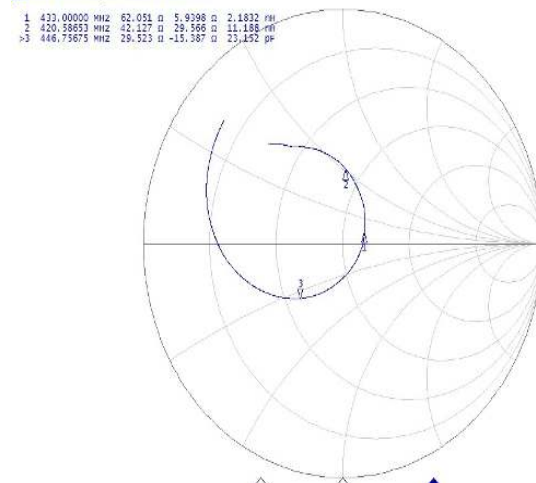
#### RETURN LOSS

S11 Log Mag 10.000dB/ ref 0.000dB [F2]



#### SMITH CHART

S11 Smith (R-jX) scale 1.0000 [F2]



**ENVIRONMENTAL & MECHANICAL SPECIFICATIONS**

High Temperature Test	85°C for 500 hours, and then to normal temperature/humidity for 24hours.
Low Temperature Test	-30°C for 500 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	85°C / 90-95% for 96 hours, and then to normal temperature/humidity for 24hours.
Thermal Shock Test	-30°C for 30 min and +85°C for 30 min. 5 cycles, then expose to normal temperature/humidity for 24 hours or more.
Vibration Test	5 to 200 to 5Hz, swept in 10min, 4.5G at max(2mm amplitude), in X and Y directions for 2 hours each and in Z direction for 4 hours.