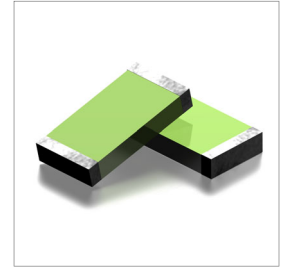


Features

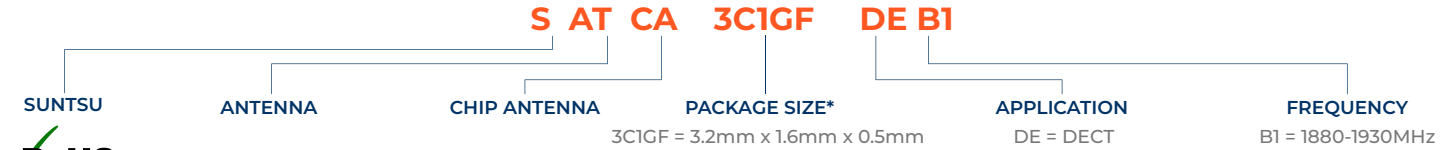
- DECT - Digital Enhanced Cordless Telecommunications
- Chip Type
- Stable And Reliable Performance
- 1880-1930MHz
- SMT Process Compatible

Applications

- Cordless Home Telephones
- DECT Internet-working
- Cordless Terminal Mobility
- Wireless Local Loop (WLL)



Part Numbering Guide

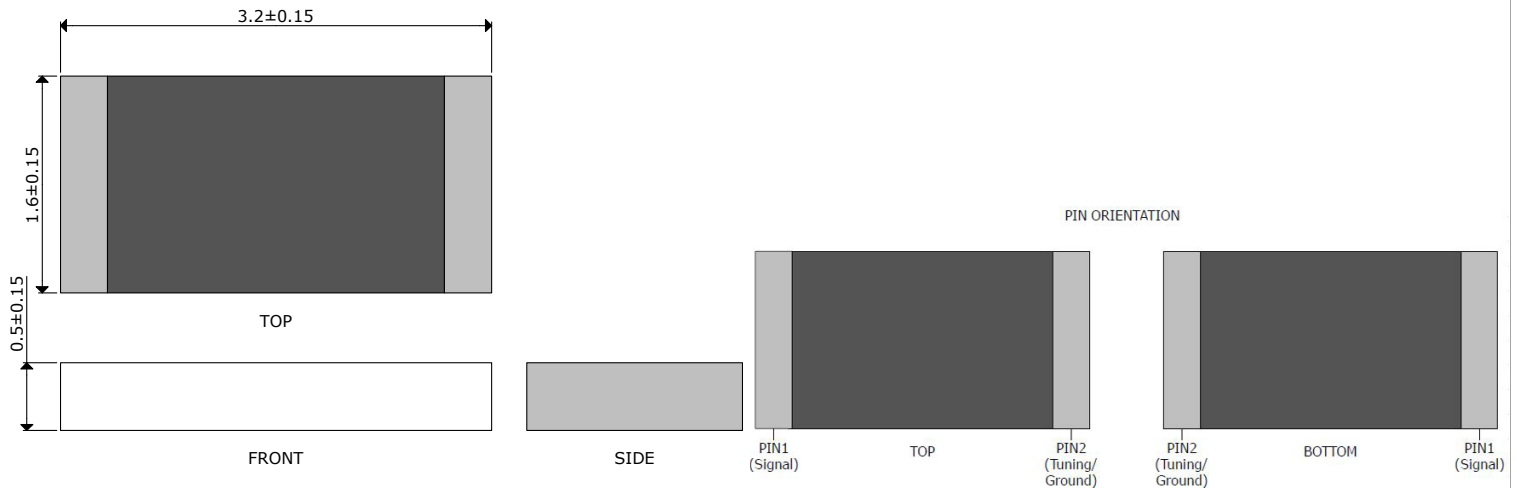


* Where letters denote decimal location (A=.0, B=.1, C=.2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	1880		1930	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		1.5		At 1905MHz
Efficiency	%		74		At 1905MHz
VSWR				2	At Center Frequency
Operating Temperature	C	-40		85	

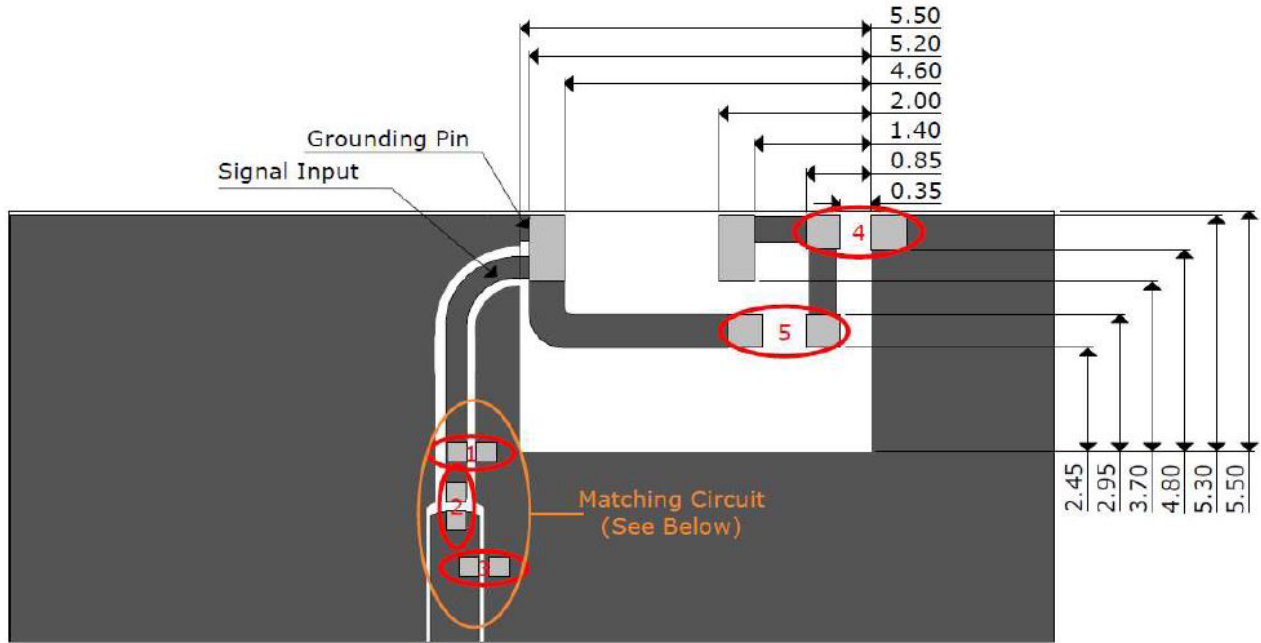
Outline Drawing

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



Recommended Land Pattern & Frequency Tuning Scenario Circuit

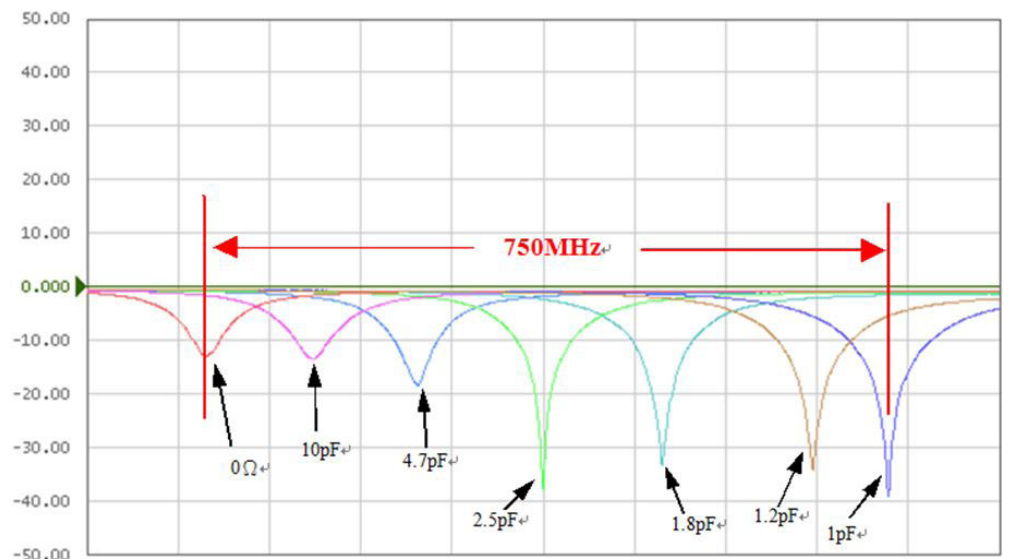
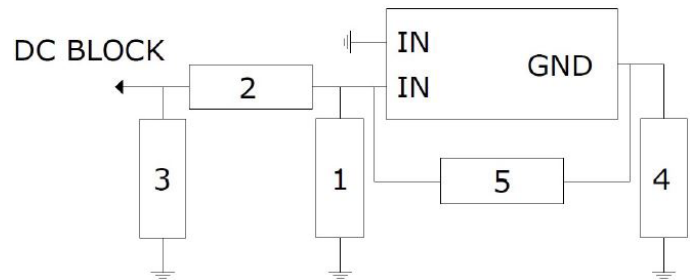
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



Transmission Line With 50Ω Impedance Characteristics

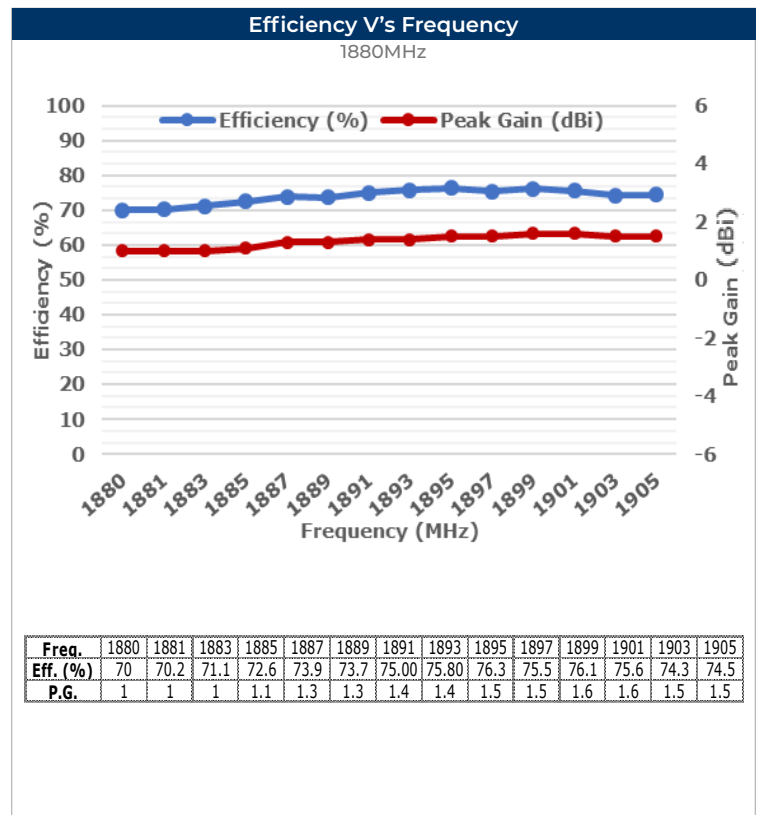
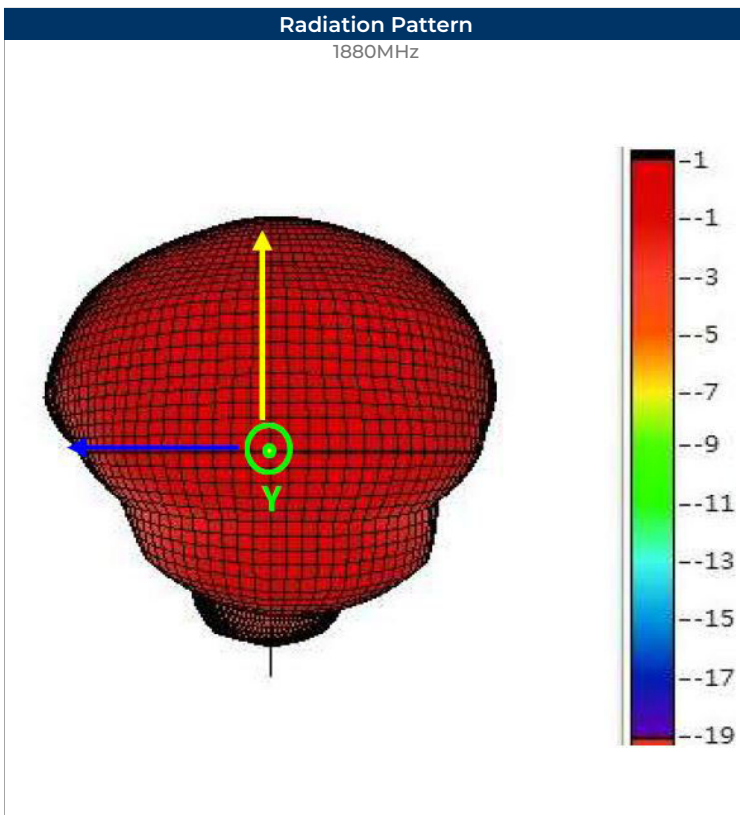
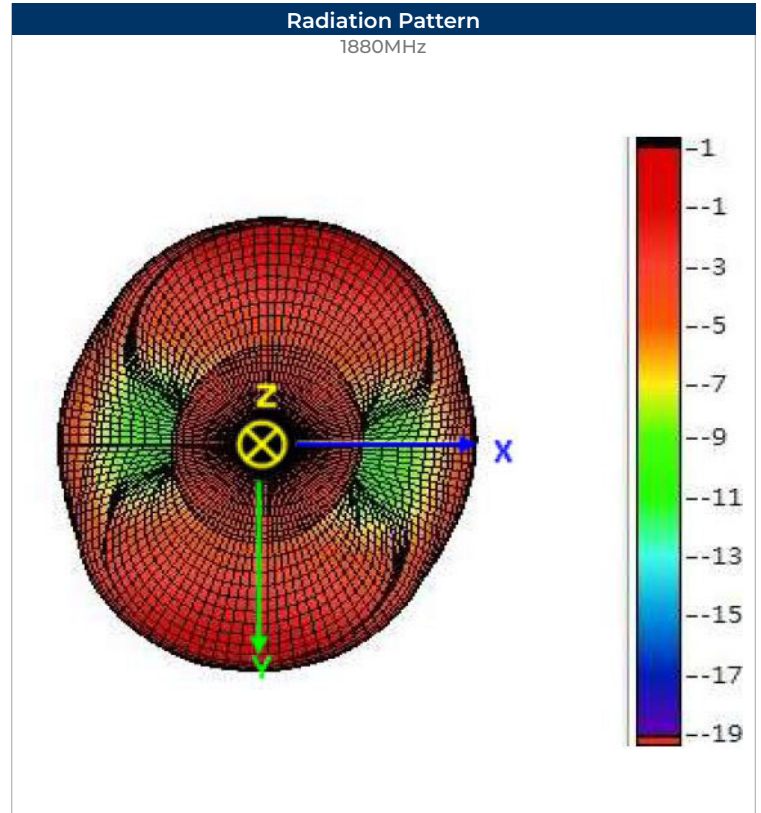
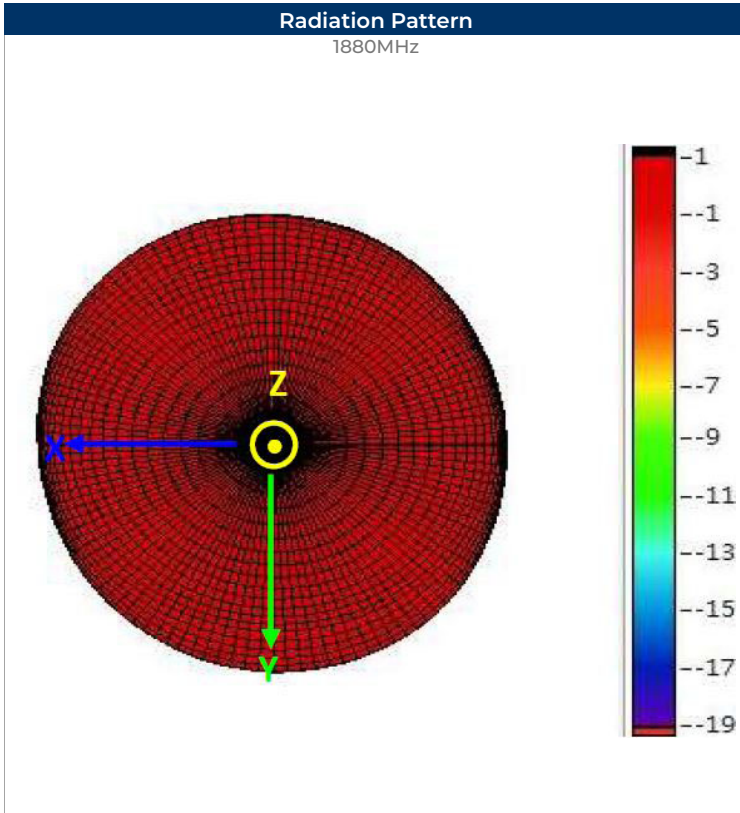
System Matching Circuit Components

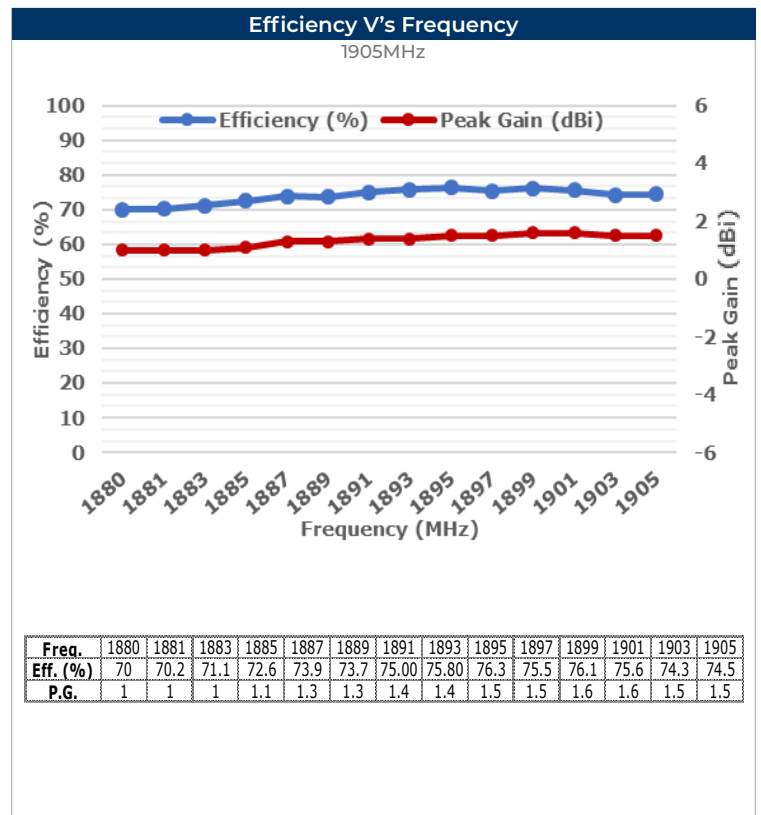
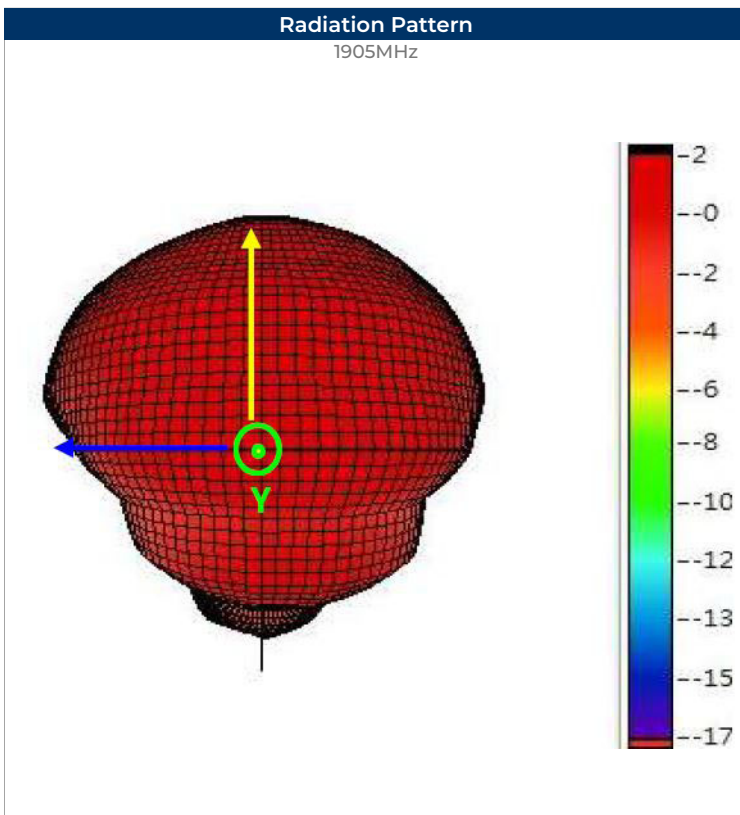
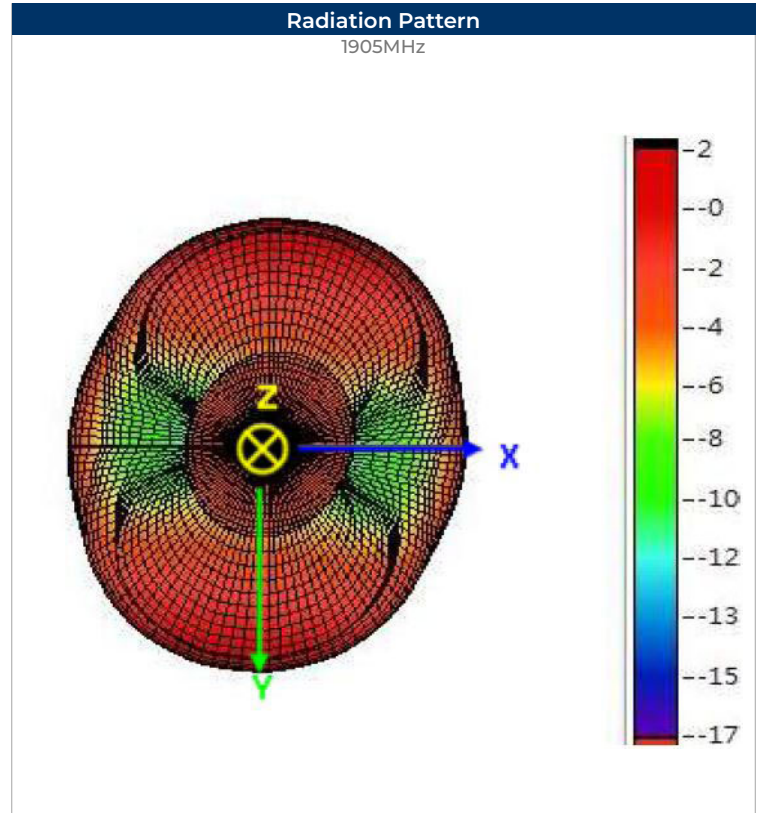
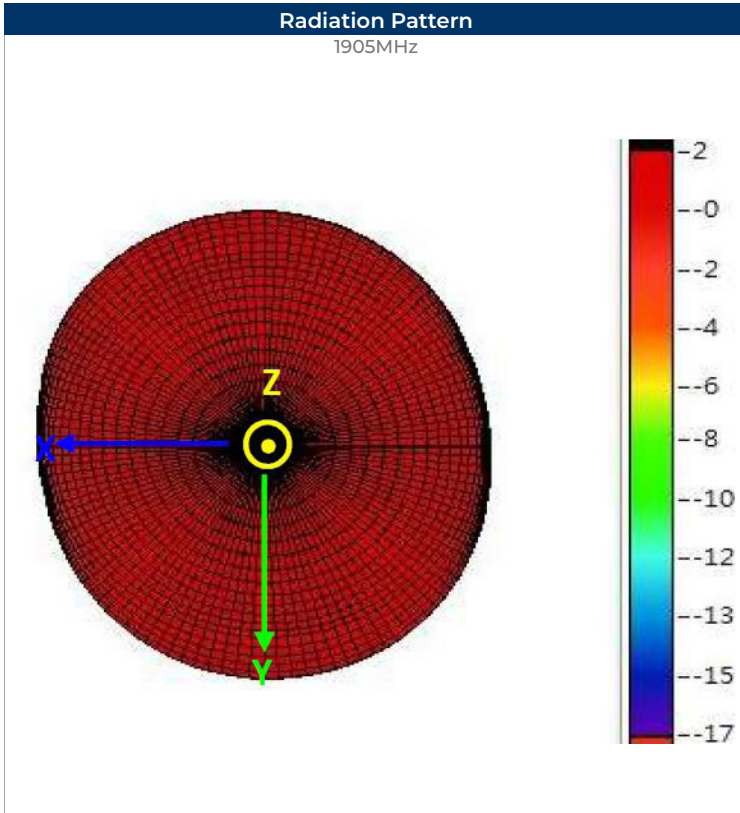
Location	Description	Vendor	Tolerance
1	1.2pF (0402)	DARFON	±0.1pF
2	0Ω, (0402)	-	-
3	N/A	-	-
4 (Fine Tuning)	2.5pF, (0402)	DARFON	±0.1pF
5 (Fine Tuning)	0.5pF, (0402)	DARFON	±0.05pF

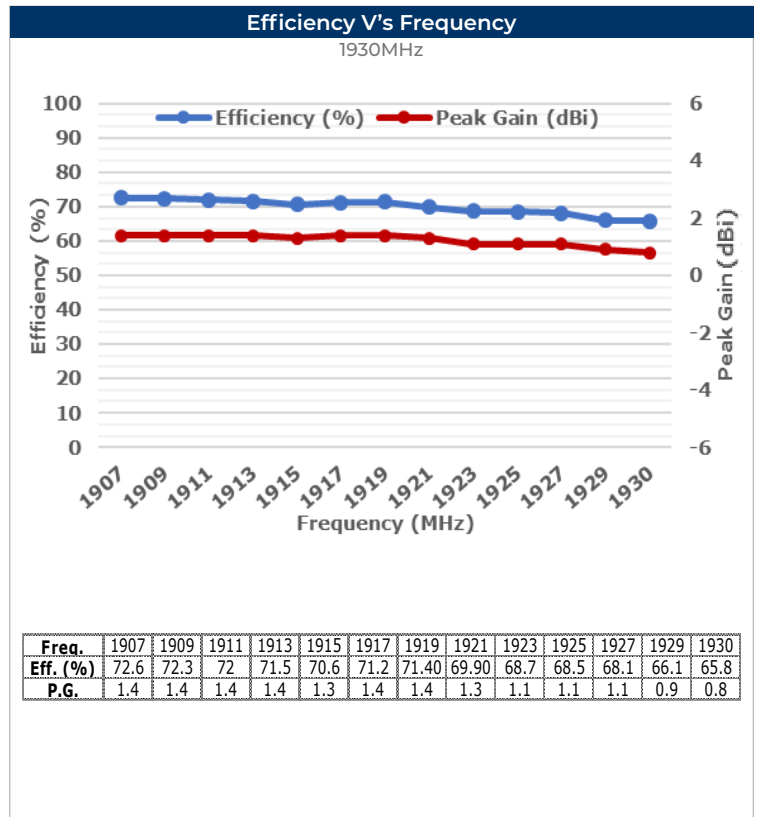
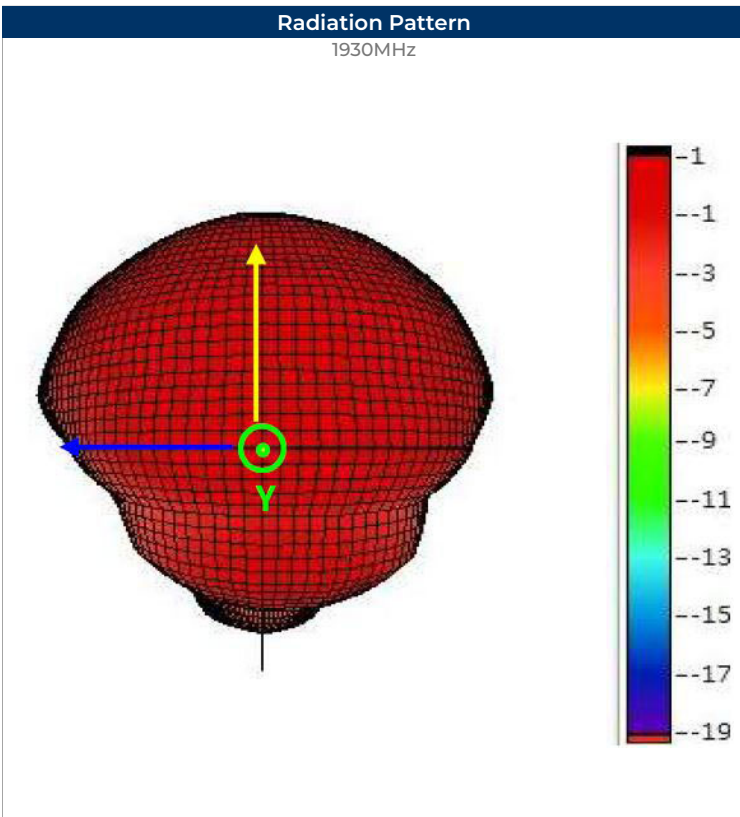
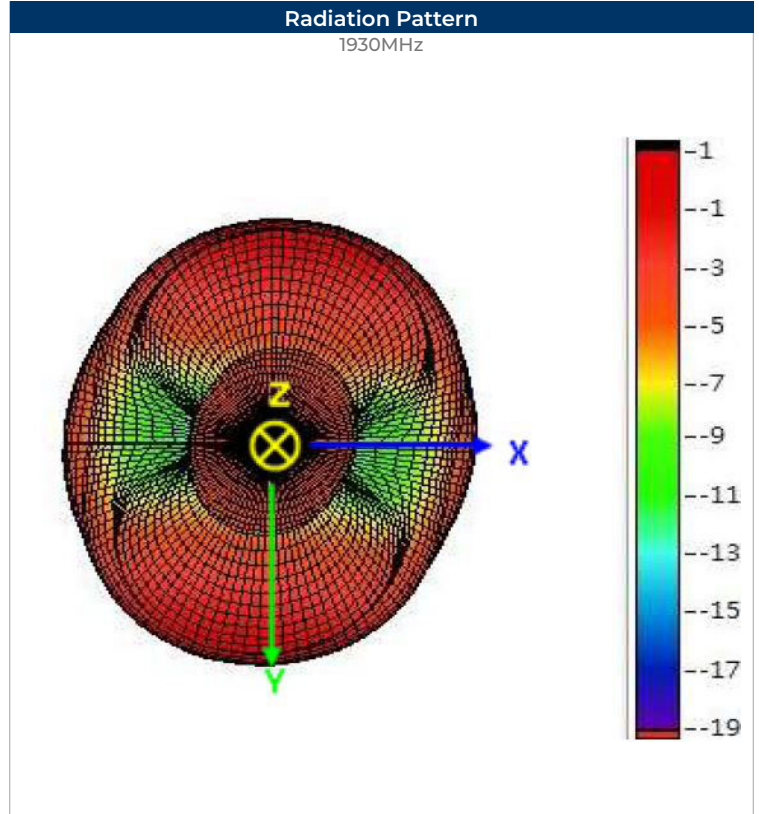
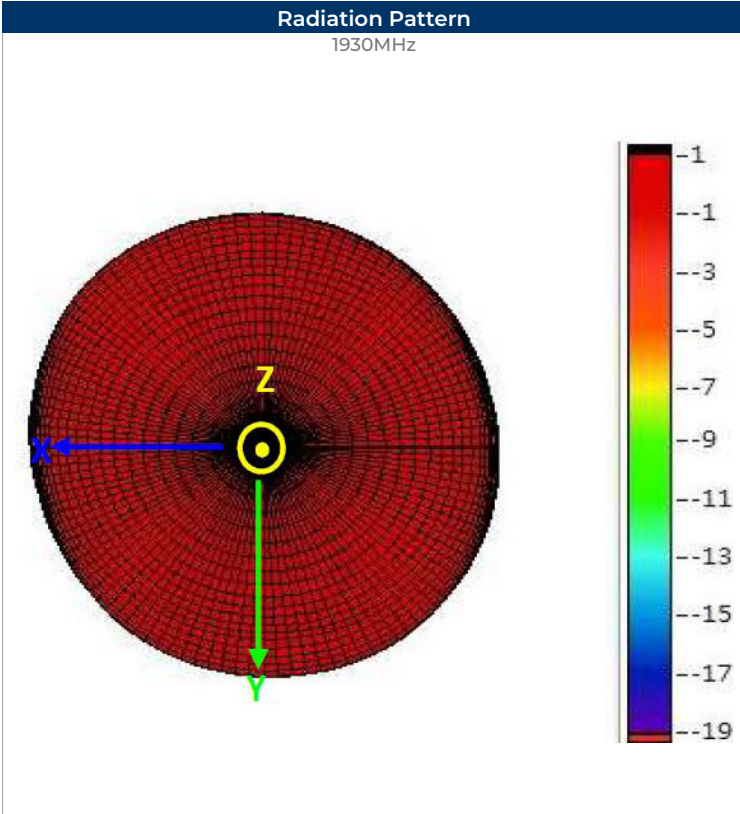


For these suggested values for the matching and tuning of components, the average frequency will be around 1905MHz on a standard 80 x 40mm² Evaluation board.

Please note, these are average reference values which may need to be changed when different circuit boards or manufacturers are used.



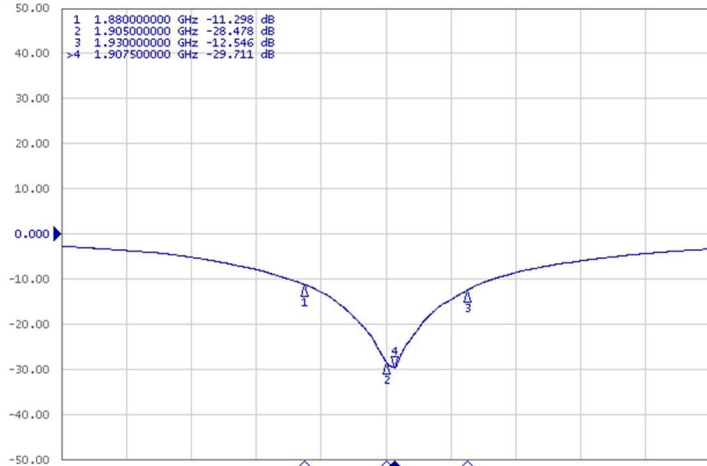




Electrical Test

Return Loss

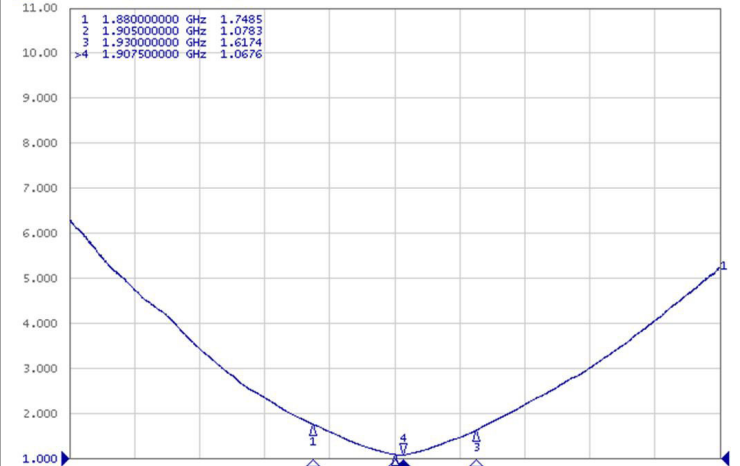
[F1] S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



Electrical Test

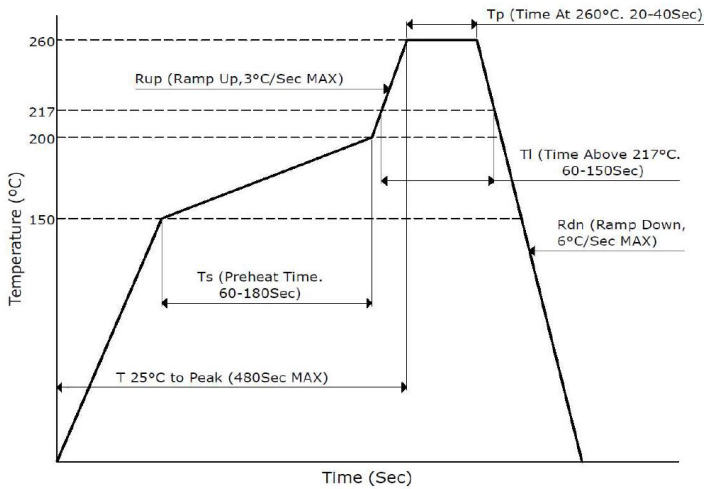
VSWR

[F1] S11 SWR 1.000/ Ref 1.000 [F1]



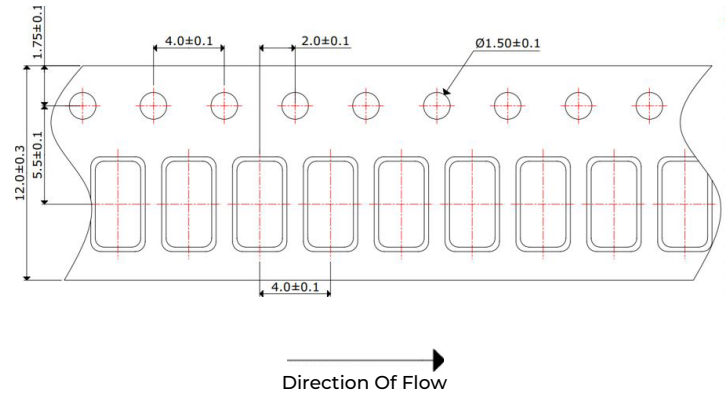
Soldering Conditions

Typical Soldering Profile For Lead-Free Process



Packaging - Tape And Reel

5000Pcs / Reel



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%RH 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.