

M736 Rooster Tracker Antenna Information

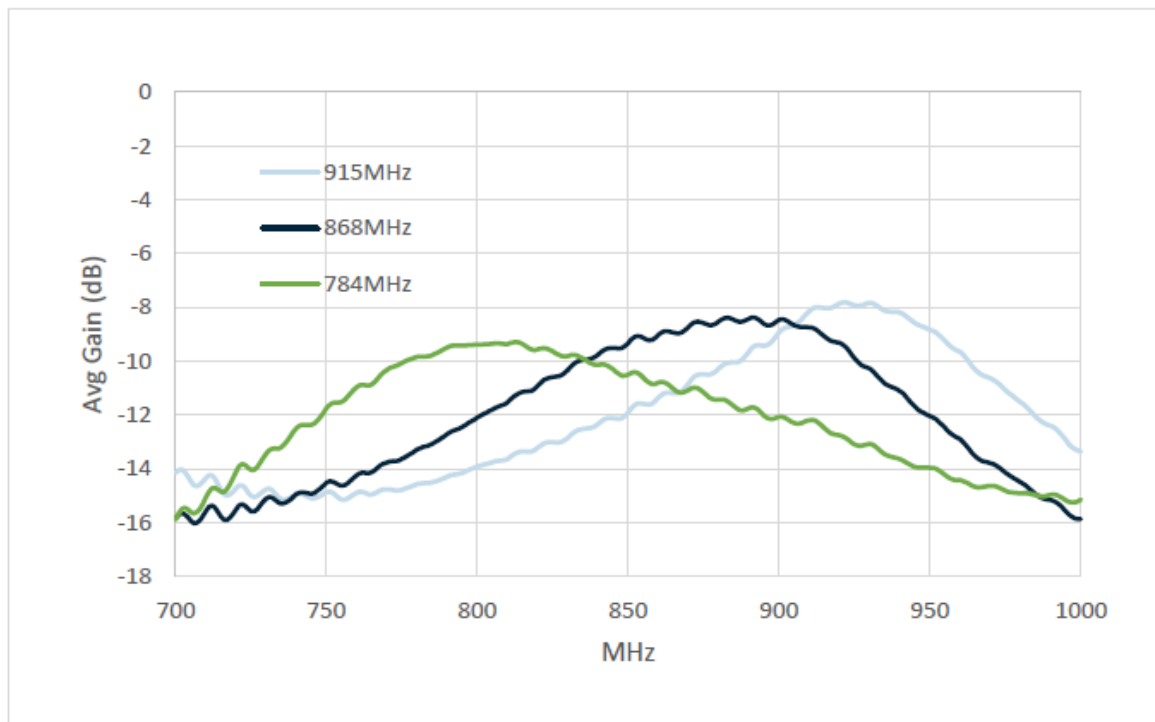
Metlabs Job #108236

The Rooster Tracker uses a custom ISM Band IFA Flex Antenna that is designed specifically for potted ISM devices that require a Narrow-band FPCB Antenna. The antenna can be a lumped-element matched for center frequencies ranging from 784 MHz to 915 MHz

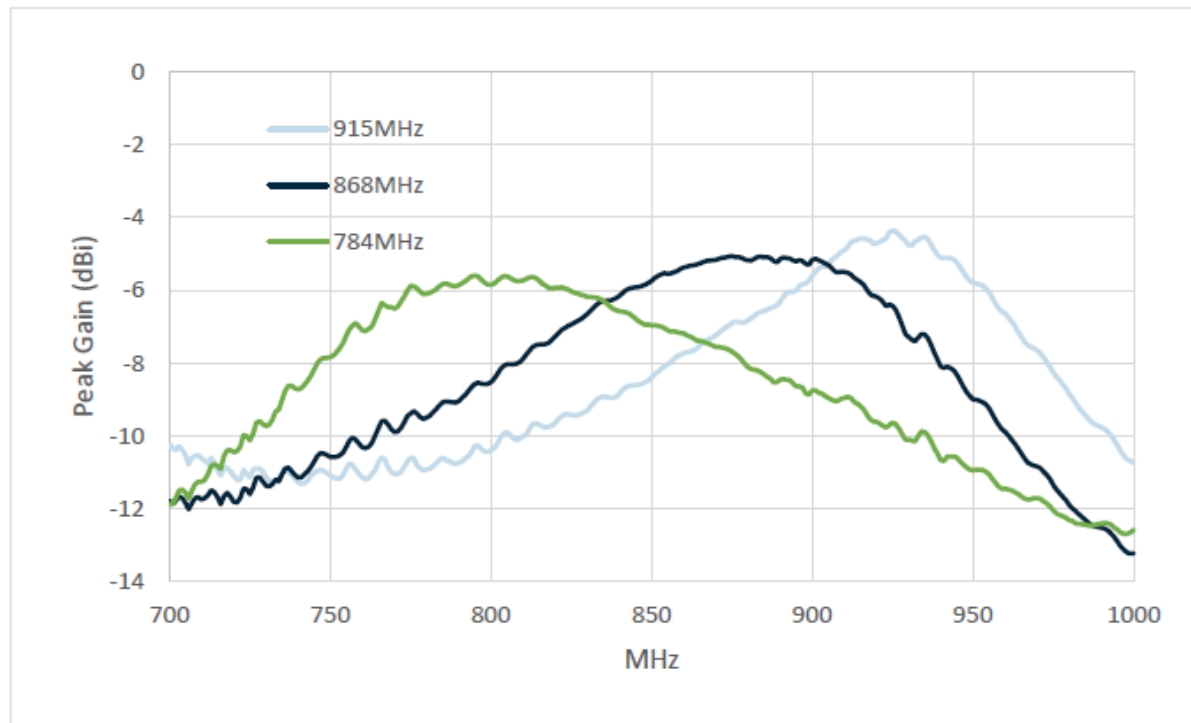
Specifications

Electrical			
Frequency (MHz)	784	868	915
Efficiency (%)			
Straight	11.5	14.0	16.0
Peak Gain (dBi)			
Straight	-5.6	-5.2	-4.5
Average Gain (dB)			
Straight	-9.4	-8.5	-7.9
Impedance	50Ω		
Polarization	Linear		
Radiation Pattern	Omnidirectional		
Input Power	5W		
Mechanical			
Substrate	Polyimide		
Connection Style	Manual direct solder		
Weight	TBD		
Adhesive	3M 467MP		
Environmental			
Temperature Range	-40°C to 85°C		
Humidity	Non-condensing 65°C 95% RH		

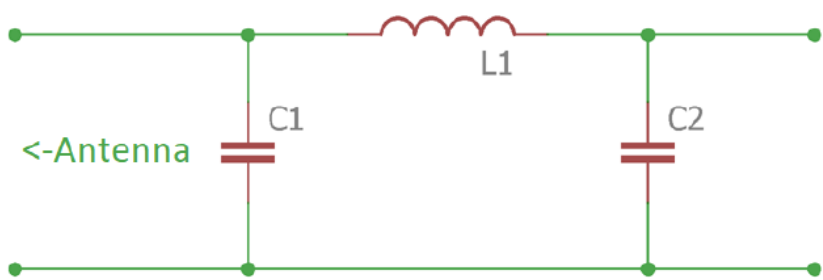
Average Gain



Peak Gain



Matching Circuit per ISM Band



Center <i>f</i>	C1	L1	C2
784MHz	27nH Inductor	2.2pF Capacitor	DNP
868MHz	DNP	0 Ω Jumper	DNP
915MHz	DNP	10pF Capacitor	4.7pF Capacitor

Mechanical Drawings (Units: mm)

