



Tyco
Electronics

Technical Data Sheet

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802.11b/g Antenna

Tyco Electronics P/N: 1513671-1 Rev B

Electrical

Frequency	2.4 – 2.5 GHz.	4.9 – 5.9 GHz
Peak Gain	1.6 dBi	2.8 dBi
VSWR	2.5:1 Max	
Polarization	Linear Vertical	
Connector	None (SMT)	
Cable Loss	N/A	

Features

- Small and lightweight
- No tuning components
- Available in tape and reel or tray packing for automatic mounting
- RoHS compliant

Integration and Customization

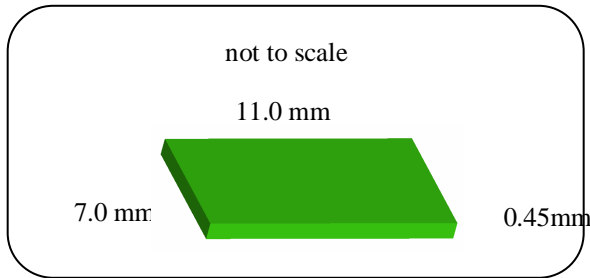
This is a surface-mount antenna intended for use in 802.11a/b/g applications. This antenna provides excellent performance at a low cost.

Using our design expertise and state-of-the-art facilities, our engineers will work with you to guide your product through our comprehensive six point integration process from initial consultation and design to manufacturing and quality assurance.

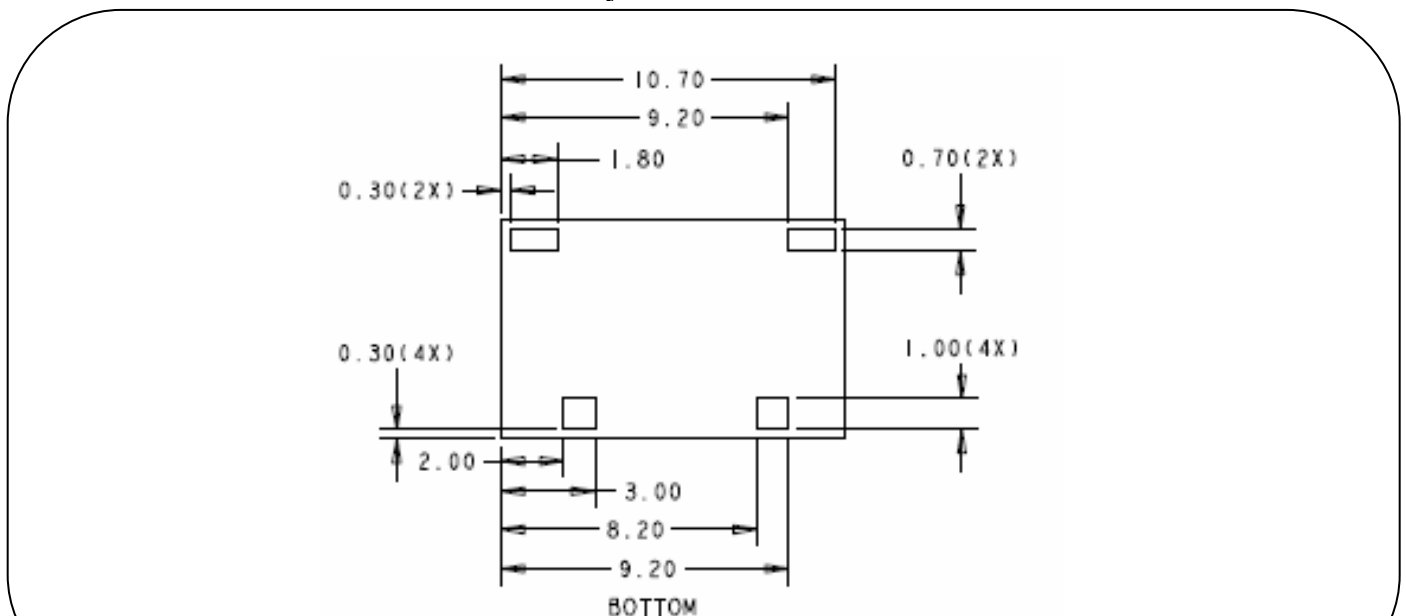
Mechanical

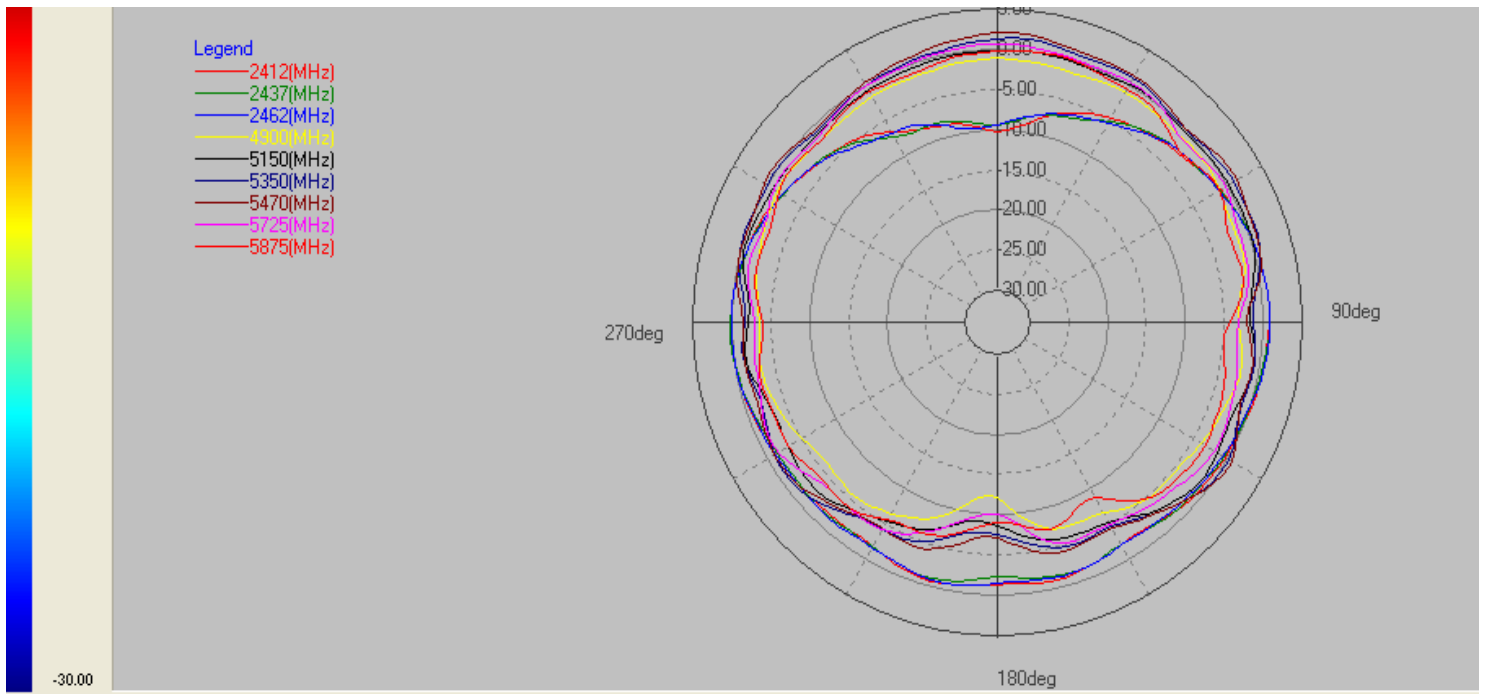
Size	11.0 x 7.0 x 0.45 mm
Weight	less than 1 gram

Dimensions



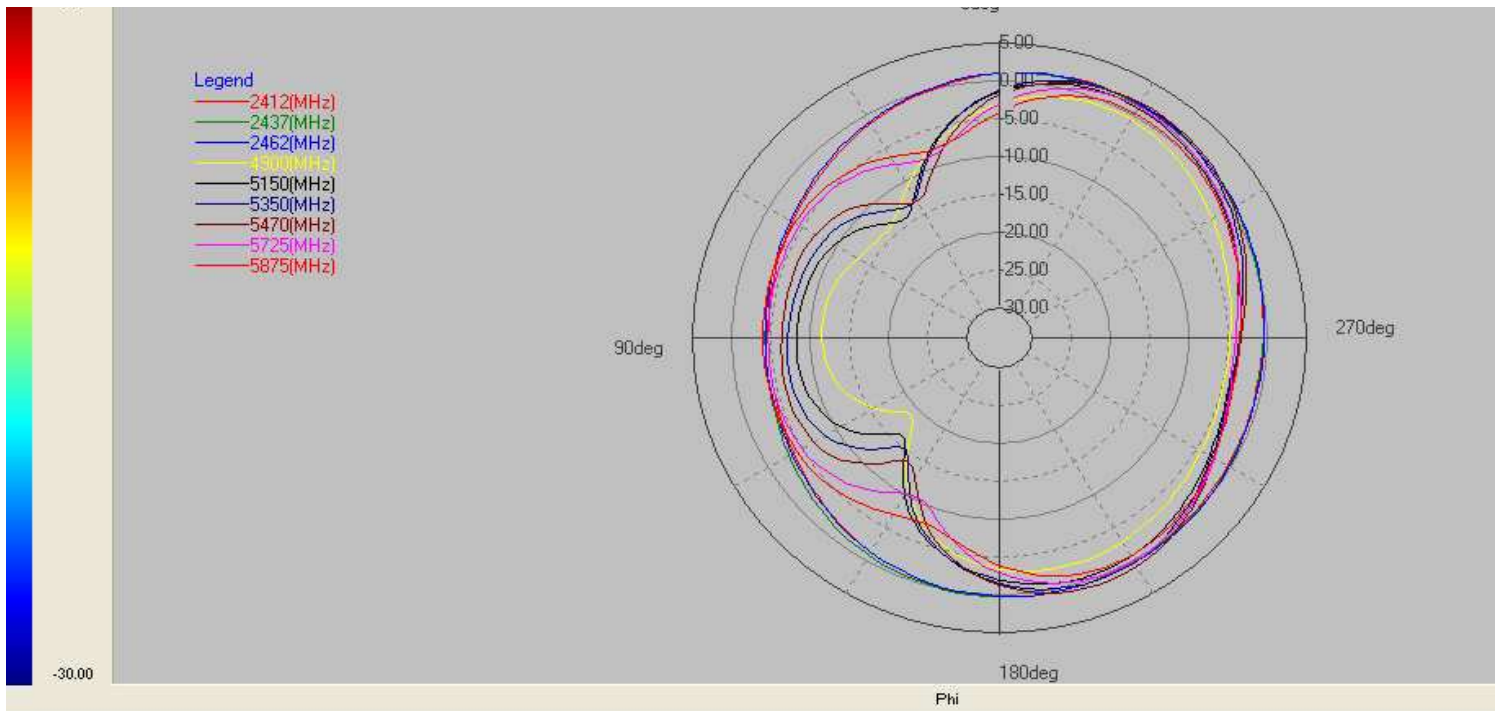
Pad Layout Dimensions





Layer	Max value	Position	Min val...	Position	Beam...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2412(MHz)	0.85	87.00 deg	-10.44	0.00 deg	90.63 d...	-1.77	2.97	----	----	----	----
2437(MHz)	0.88	87.00 deg	-9.58	0.00 deg	93.53 d...	-1.88	2.86	----	----	----	----
2462(MHz)	0.92	90.00 deg	-9.96	-6.00 deg	91.26 deg	-1.84	2.90	----	----	----	----
4900(MHz)	-0.85	54.00 deg	-12.65	-177.00 ...	228.80 ...	-3.17	2.96	----	----	----	----
5150(MHz)	0.21	72.00 deg	-9.31	-174.00 ...	244.85 ...	-1.79	2.57	----	----	----	----
5350(MHz)	1.26	6.00 deg	-7.88	-177.00 ...	237.97 ...	-0.96	2.45	----	----	----	----
5470(MHz)	1.87	3.00 deg	-7.43	-177.00 ...	171.65 d...	-0.72	2.39	----	----	----	----
5725(MHz)	0.44	0.00 deg	-10.23	-180.00 ...	172.82 d...	-2.00	2.65	----	----	----	----
5875(MHz)	-0.05	12.00 deg	-9.33	153.00 d...	169.53 d...	-2.91	2.53	----	----	----	----

Elevation Pattern



Layer	Max value	Position	Min val...	Position	Beam...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2412(MHz)	1.61	333.00 deg	-4.62	96.00 d...	----	-0.63	1.91	----	----	----	----
2437(MHz)	1.49	333.00 deg	-4.20	90.00 d...	----	-0.51	1.71	----	----	----	----
2462(MHz)	1.58	333.00 deg	-4.22	93.00 d...	----	-0.52	1.79	----	----	----	----
4900(MHz)	-0.71	333.00 deg	-19.02	132.00 d...	----	-4.94	5.06	----	----	----	----
5150(MHz)	1.04	333.00 deg	-16.08	135.00 d...	----	-3.27	4.76	----	----	----	----
5350(MHz)	1.65	330.00 deg	-15.19	141.00 d...	----	-2.65	4.56	----	----	----	----
5470(MHz)	1.86	324.00 deg	-13.93	144.00 d...	68.91 deg	-2.34	4.39	----	----	----	----
5725(MHz)	1.22	327.00 deg	-10.59	153.00 d...	64.10 deg	-2.70	2.99	----	----	----	----
5875(MHz)	0.26	327.00 deg	-7.81	18.00 deg	72.77 d...	-2.96	2.19	----	----	----	----

Azimuth Pattern