BT/WiFi and GPS/BDS/GLNSS Quad band, Dual Feed Chip Antenna: 2.4/1.561/1.575/1.602GHz, SMD P/N 2450AD47A1590
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General Specifications						
Part Number	2450AD47A1590					
Frequency (MHz)	2400~2500	1561	1575	1602		
Peak Gain	1.0	0.5	1.5	1.5		
(dBi typ.)	(YZ-Total)	(YZ-Total)	(YZ-Total)	(YZ-Total)		
Average Gain	-1.0	-2.5	-2.0	-2.0		
(dBi typ.)	(YZ-Total)	(YZ-Total)	(YZ-Total)	(YZ-Total)		
Return Loss (dB)	8 min.	7.5 min.	9.0 min.	8 min.		
Ave Radiation						
Efficiency % ¹	83	45	51	51		
(on JTI EVB)						
Isolation	20 dB	15 dB	15 dB	15 dB		



)		
	Reel Quantity	1,000
	Operating Temperature	-40 to +85°C
	Storage Temperature	-40 to +85°C
	Storage Period	18 months max.
	Power Capacity	2W max. (CW)

¹On Johanson test board p/n: 2450AD47A1590-EB1SMA. EVB details on pages 2/3

Part Number Explanation				
P/N Suffix		Bulk (loose)	Suffix = S	e.g 2450AD47A1590S
		T&R	Suffix = E	e.g 2450AD47A1590E
		100% Tin	Suffix = E or S	e.g 2450AD47A1590(E or S)
	Evaluation Board	2450AD47A1590-EB1SMA (Pre-tuned with SMA connectors)		

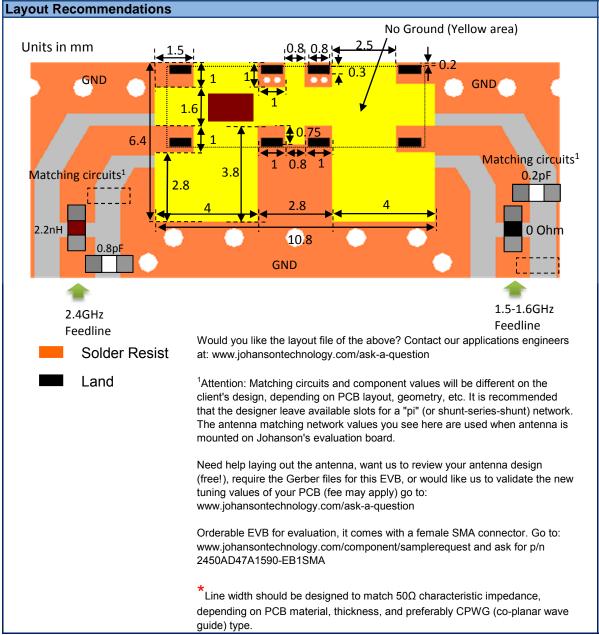
Me	Mechanical Dimensions					
	In			mn	n	a1 a2 a1 a3 a1 a2 a1
L	0.394	±	0.008	10.00 ±	0.20	b. I
W	0.126	±	0.008	3.20 ±	0.20	T
Т	0.059	±	0.008	1.50 ±	0.20	<mark></mark>
a1	0.031	±	0.008	0.80 ±	0.20	
a2	0.106	±	0.008	2.70 ±	0.20	
а3	0.039	±	0.008	1.00 ±	0.20	l l l l l l l l l l l l l l l l l l l
b	0.012	±	0.004/-0.008	0.30 ±	0.1/-0.2	←

Find out more about our antenna design assistance services at: http://www.johansontechnology.com/ipc-antenna-services

Terminal Configuration				
No.	Function			
1	2.4GHz Feed Point			
2	GND			
3	GND			
4	1.5-1.6GHz Feed Point			
5	GND			
6	GND			
7	GND			
8	GND			
(8 7 6 5			
(D 2 3 4			

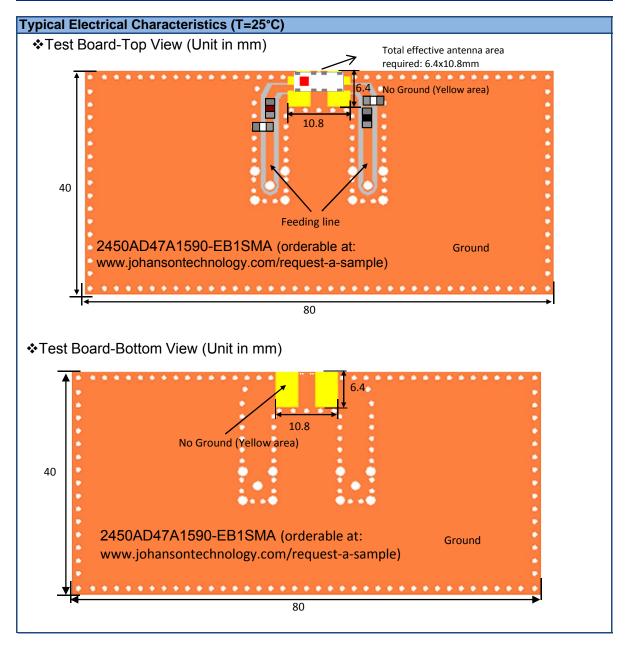


BT/WiFi and GPS/BDS/GLNSS Quad band, Dual Feed Chip Antenna: 2.4/1.561/1.575/1.602GHz, SMD P/N 2450AD47A1590 Detail Specification: Page 2 of 9 11/10/2015



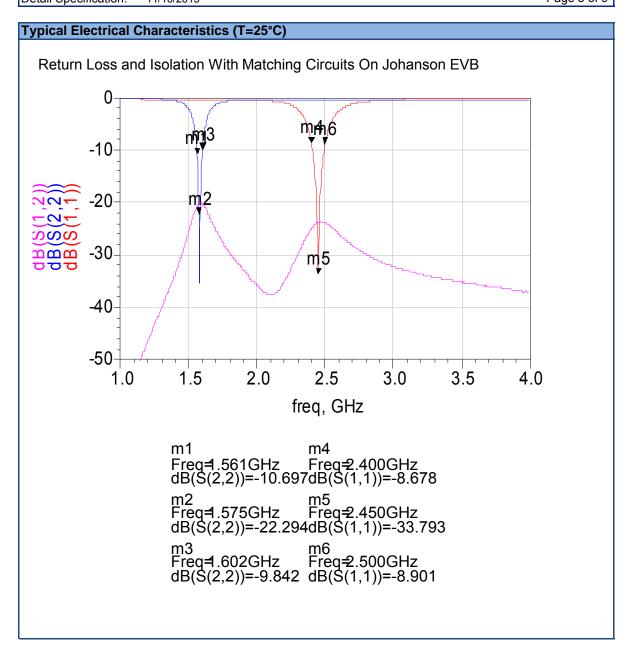


BT/WiFi and GPS/BDS/GLNSS Quad band, Dual Feed Chip Antenna: 2.4/1.561/1.575/1.602GHz, SMD P/N 2450AD47A1590
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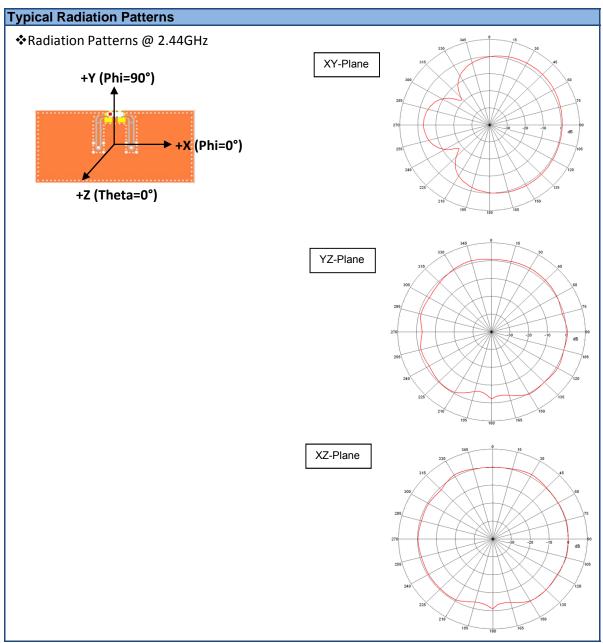


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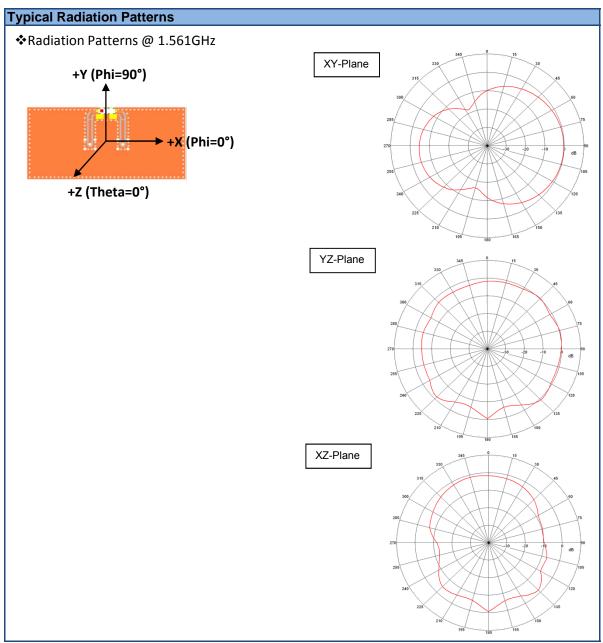


BT/WiFi and GPS/BDS/GLNSS Quad band, Dual Feed Chip Antenna: 2.4/1.561/1.575/1.602GHz, SMD P/N 2450AD47A1590
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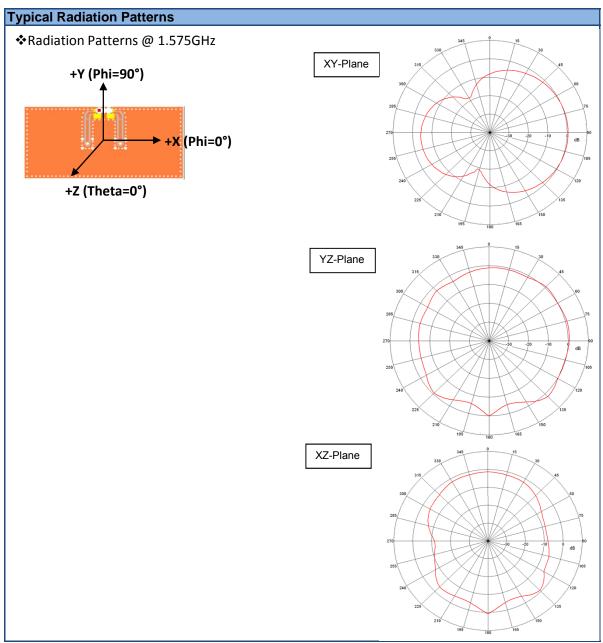


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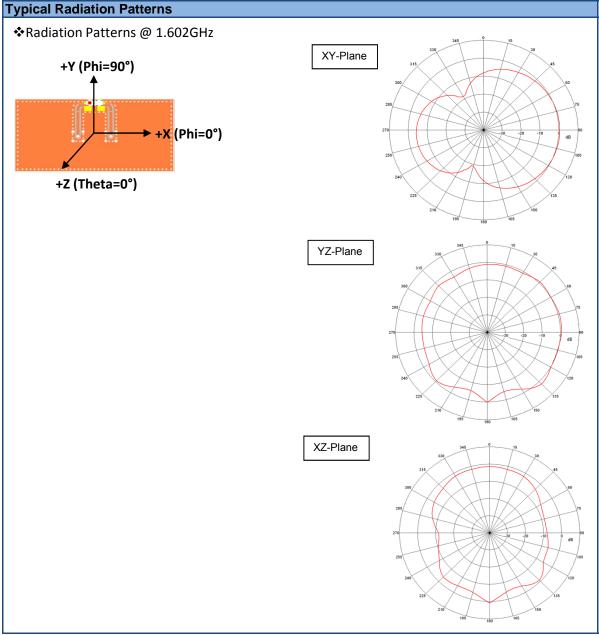


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BT/WiFi and GPS/BDS/GLNSS Quad band, Dual Feed Chip Antenna: 2.4/1.561/1.575/1.602GHz, SMD P/N 2450AD47A1590
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Antenna tuning, optimization, and validation services:

www.johansontechnology.com/ipcantennaservices

For more antennas and to download measured S-parameters, go to:

www.johansontechnology.com/antennas

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Packaging information

www.johansontechnology.com/ipcpackaging.html

For layout review contact our Applications Team at:

www.johansontechnology.com/component/techquestion

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

