# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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#### 490 MHz SMD Chip Antenna

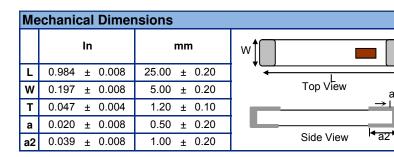
P/N 0490AT62A0040

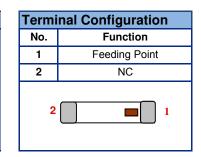
Page 1 of 4

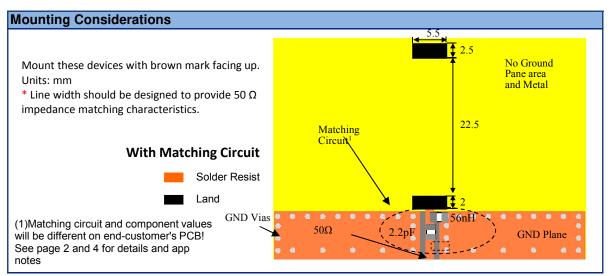
Detail Specification: 9/12/2013

General Specifications				
Part Number	0490AT62A0040			
Frequency Range	470 ~ 510 MHz			
Peak Gain (YZ-total)	-3.0 dBi typ.			
Average Gain (YZ-total)	-6.0 dBi typ.			
Return Loss	4.4 dB min.			
Impedance	50 Ω			
Reel Quantity	500			
Operating Temperature	-40 to +85°C			
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH 18 mos. max			
Power Capacity	2W max (CW)			









Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



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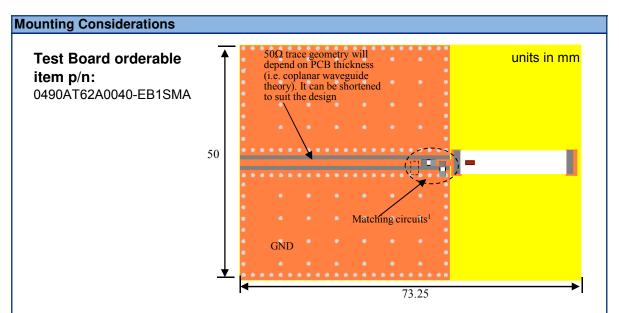
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#### 490 MHz SMD Chip Antenna

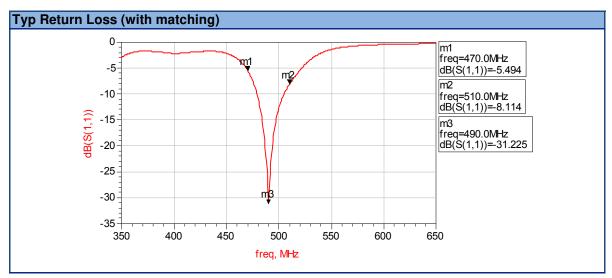
P/N 0490AT62A0040

Detail Specification: 9/12/2013





(1)Note: It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values here are used when antenna is mounted on Johanson's evaluation board. The matching values on clinet's PCB will be different, go to: johansontechnology.com/tuning and see how to obtain the new values. If you need further help, contact our RF Applications Eng Team at: www.johansontechnology.com/en/ask-a-technical-question.html



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#### 490 MHz SMD Chip Antenna

P/N 0490AT62A0040

Detail Specification: 9/12/2013



Typical Radiation Patterns (@25C) XY cut @490MHz XY-total<sup>1</sup> Ζ Total 180° 90° 270° XY-cut scanning direction XZ-total<sup>1</sup> XZ cut @490MHz Total 180° 90° 270° 0° z۲ XZ-cut scanning direction YZ cut @490MHz YZ-total<sup>1</sup> Х Total 180° 90° 270° YZ-cut scanning direction (1)Total = Horizontal+Vertical Polarization cut measurements

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#### 490 MHz SMD Chip Antenna

P/N 0490AT62A0040

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Detail Specification: 9/12/2013

### **Further Technical and Evironmental Information**

Part Number Explanation						
P/N Suffix	Packaging Style	Bulk (loose pieces)	Suffix = S	Eg. 0490AT62A0040S		
		T&R	Suffix = E	Eg. 0490AT62A0040E		
		T & R (Reverse)	Suffix = R	Eg. 0490AT62A0040R (MOQ Applies)		
	Termination style	100% Tin (RoHS)	Suffix = S/E/R	Eg. 0490AT62A0040(S, E, R)		
		Tin / Lead	Please consult Factory			
	Evaluation Board(s) (1-port SMA antenna test boards)	0490AT62A0040-EB1SMA (Page 2)				

Antenna layout review, tuning, and characterization services www.johansontechnology.com/ipcantennaservices

#### Soldering Information

www.johansontechnology.com/ipcsoldering-profile

**Packaging information** 

www.johansontechnology.com/ipcpackaging.html

#### **RoHS Compliance**

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

**MSL Info** 

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

**Recommneded Storage Condition and Max Shelf Life** 

www.johansontechnology.com/ipcstorage-shelflife

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