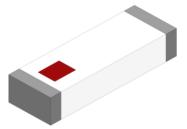
3.6 GHz Internal Chip Antenna, SMD 5G, n78 IoT Applications, and Related Frequency Operations

P/N 3600AT43A0400

Detail Specification: 6/13/2019 Page 1 of 5

Let us help you with the antenna design, optimization, and tuning! https://www.johansontechnology.com/ask-a-question

General Specifications				
Part Number	3600AT43A0400			
Frequency (GHz)	3.4 - 3.8			
Peak Gain (dBi)	1.6 typ.			
Average Gain (dBi)	-1.8 typ.			
Radiated Efficiency ¹	61%			
Return Loss (dB)	9.5 min.			
Impedance (Ω)	50			

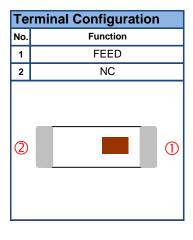


Radiated Efficiency	61%		
Return Loss (dB)	9.5 min.	Reel Size	2,000 pcs/reel
Impedance (Ω)	50	Recommended Storage	+5 to +35°C
Input Power (W)	2 max. (CW)	Conditions and Period for	Humidity 45 - 75% RH
Operating Temperature	-40 to +85°C	unused T&R Product	18 months max.

¹Efficiency measured on Johanson's evaluation board PN 3600AT43A0400-EB1SMA

Part Number Explanation							
P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	e.g. 3600AT43A0400S			
		T&R	Suffix = E	e.g. 3600AT43A0400E			
		100% Tin	Suffix = E or S	e.g. 3600AT43A0400(S or E)			
	Evaluation Board	3600AT43A0400-EB1SMA					

	ln	mm		
L	0.236 ± 0.008	6.00 ± 0.2		
w	0.079 ± 0.008	2.00 ± 0.2		
Т	0.047 +0.004 / -0.008	1.20 +0.1 / -0.2		
а	0.020 ± 0.012	0.50 ± 0.3		
W ↓ ↓ ↓ ↓ T L <top> <side></side></top>				



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

https://www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver. 1.0

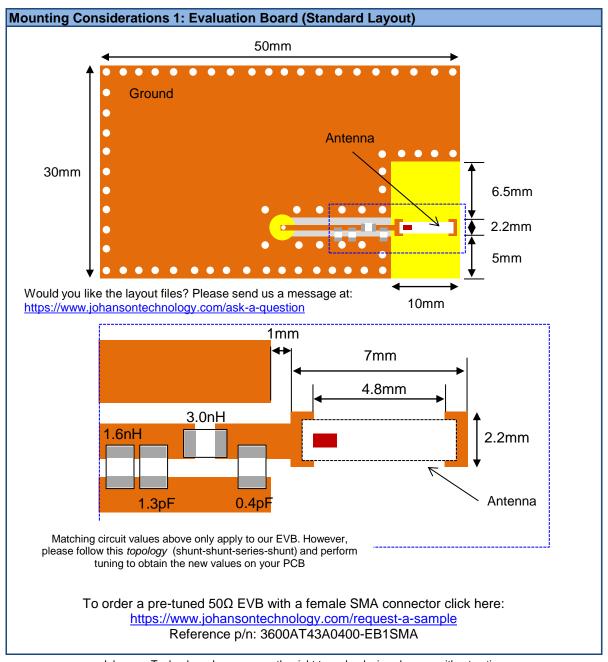
2019 Johanson Technology, Inc. All Rights Reserved

Mechanical Dimensions

3.6 GHz Internal Chip Antenna, SMD 5G, n78 IoT Applications, and Related Frequency Operations

P/N 3600AT43A0400

Detail Specification: 6/13/2019 Page 2 of 5



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



https://www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver. 1.0

2019 Johanson Technology, Inc. All Rights Reserved

3.6 GHz Internal Chip Antenna, SMD 5G, n78 IoT Applications, and Related Frequency Operations

P/N 3600AT43A0400

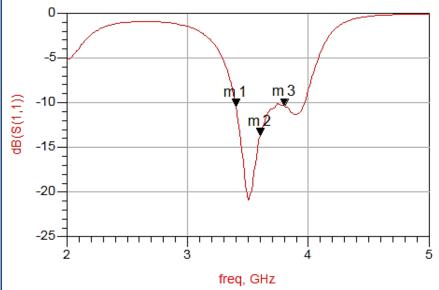
Detail Specification:

6/13/2019

Page 3 of 5

Mounting Considerations 1: Typical Electrical Performance @25°C





m 1 freq=3.400GHz dB(S(1,1))=-10.389

m2 freq=3.600GHz dB(S(1,1))=-13.646

m3 freq=3.800GHz dB(S(1,1))=-10.369

Would you like the antenna layout? Have antenna tuning issues?

Please contact us if you have any questions regarding the implementation of this antenna in your PCB's layout. We'll be happy to guide you to maximize the antenna's performance.

Contact our applications engineers at:

https://www.johansontechnology.com/ask-a-question

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

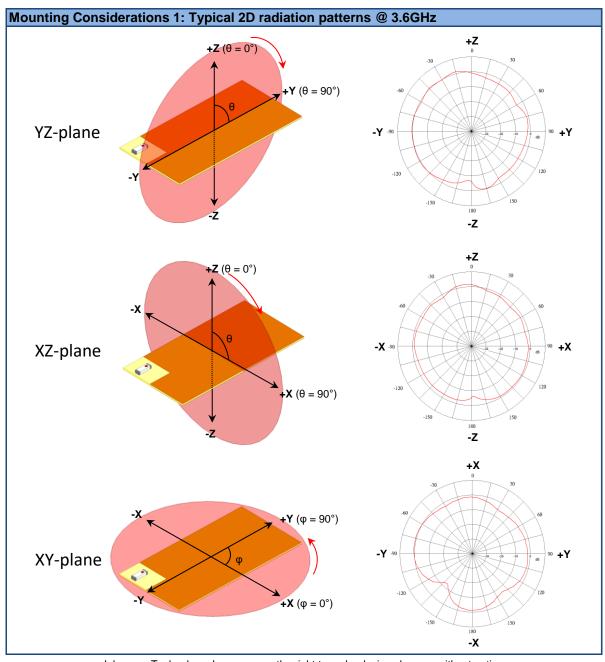


https://www.johansontechnology.com

3.6 GHz Internal Chip Antenna, SMD 5G, n78 IoT Applications, and Related Frequency Operations

P/N 3600AT43A0400

Detail Specification: 6/13/2019 Page 4 of 5



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



https://www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821