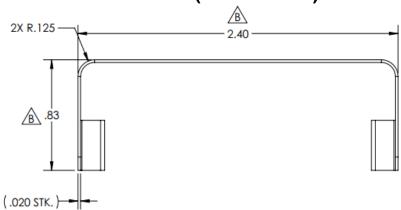
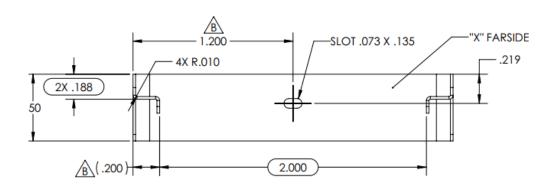
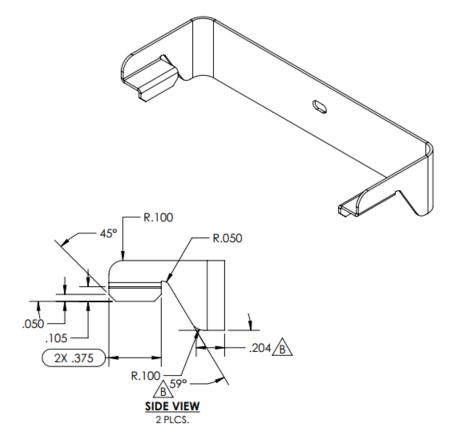
## **EUT Antennas**

## **UHF (450-470 MHz) Antenna Information**







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NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1. MATERIAL:.020 THK. C11000 COPPER ALLOY, TEMPER CR HARD H04
- 2. FINISH: .0001/.0003 BRIGHT ACID TIN
- 3. REMOVE ALL BURRS AND SHARP EDGES
- 4. PARTS TO BE INDIVIDUALLY PACKAGED FOR PROTECTION
- 5. SURFACE "X" MUST BE SMOOTH AND FLAT. NICKS, SCRATCHES, TOOL MARKS ARE NOT PERMISSIBLE.
- ALL MATERIALS AND PROCESSES SHALL COMPLY WITH EU DIRECTIVE 2011/65/EU {ROHS2} AND AS AMMENDED BY 2015/863/EU {ROHS3}.

Peak Antenna Gain is 5 dBi Manufactured by Aclara as per Drawing No. 056-2022-002A

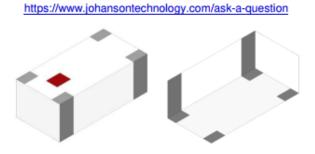
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### **BLE Antenna Information**

General Specifications			
Part Number	2450AT18D0100		
Frequency (GHz)	2.4 - 2.5		
Peak Gain (dBi)	1.5 typ. (XZ-total)		
Average Gain (dBi)	-1.0 typ. (XZ-total)		
Radiated Efficiency <sup>1</sup>	72%		
Return Loss (dB)	10 min.		
Impedance (Ω)	50		

Input Power (W)

**Operating Temperature** 



Recommended Storage		+5 to +35°C
Conditions and Period for	Humidity 45 - 75% RI	
	unused Product on T&R	18 months max.
	Quantity/Reel (pcs.)	3,000

<sup>1</sup>Efficiency measured on Johanson's evaluation board PN 2450AT18D0100-EB1SMA

3 max. (CW) -40 to +125°C

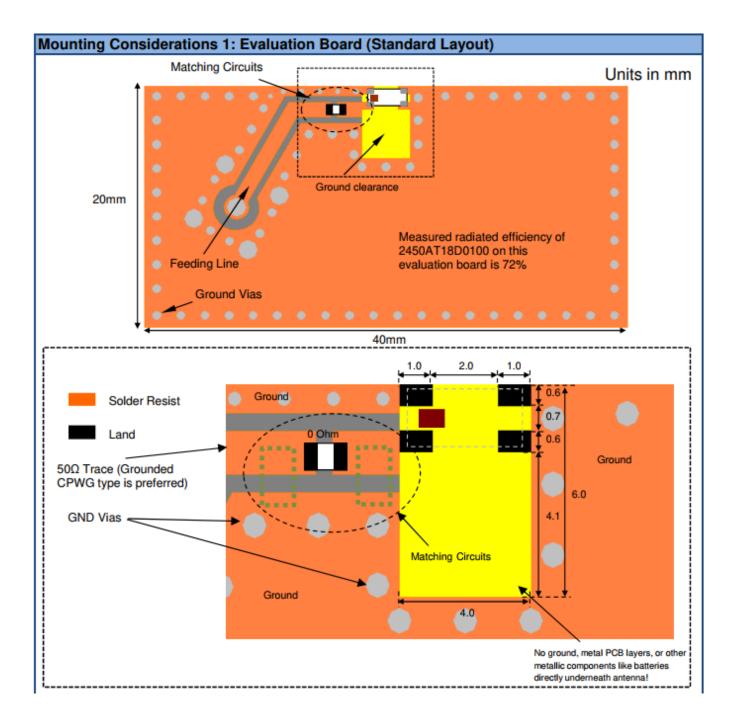
Part Number Explanation					
		Bulk (loose pcs.)	Suffix = S	e.g. 2450AT18D0100S	
P/N Suffix	Suffix	T&R	Suffix = E	e.g. 2450AT18D0100E	
P/N Sullix		100% Tin	Suffix = None	e.g. 2450AT18D0100(E or S)	
		2450AT18D0100-EB1SMA			

Mechanical Dimensions			
	In	mm	
L	0.126 ± 0.008	3.20 ± 0.2	
w	0.063 ± 0.008	1.60 ± 0.2	
T	0.047 ± 0.004	1.20 ± 0.1	
а	0.012 +0.004 / -0.008	0.30 +0.1 / -0.2	
b	0.020 ± 0.008	0.50 ± 0.2	
a • L			

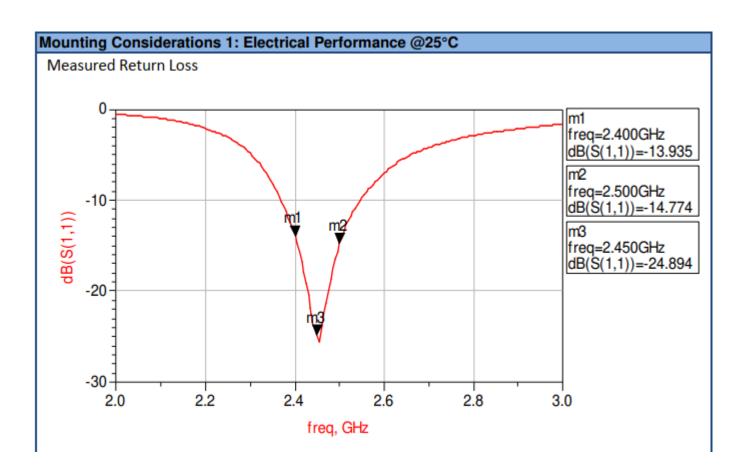
Terminal Configuration			
No.	Function 1	Function 2	
1	FEED	GND	
2	GND	GND	
3	GND	GND	
4	GND	FEED	
4			

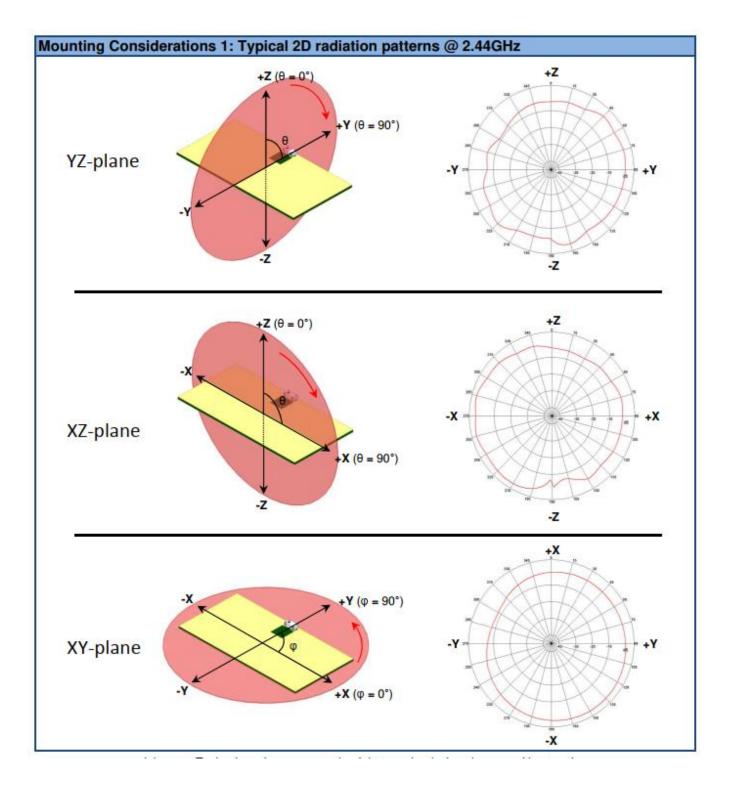
Function 1: Antenna fed from left Function 2: Antenna fed from right

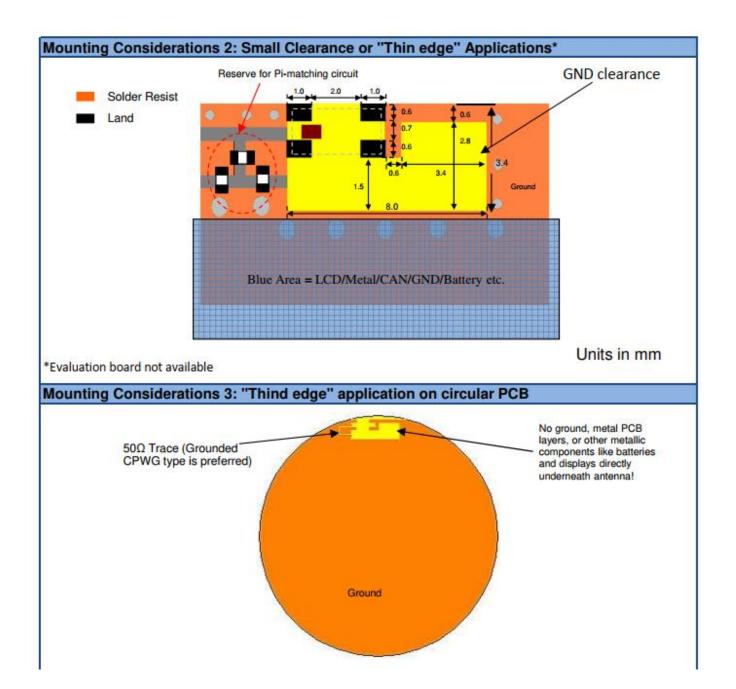
Page 3 of 8 RP-10050

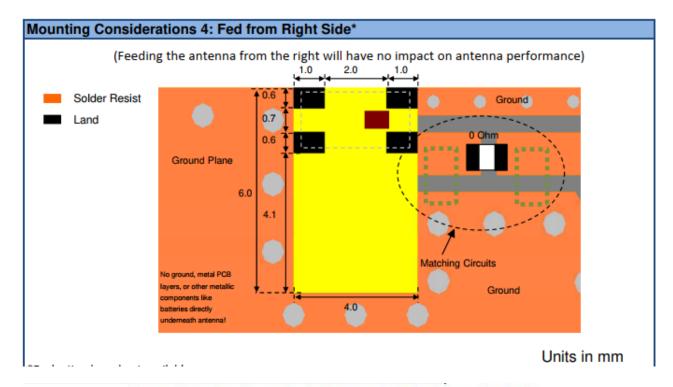


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Ver. 4.3

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# High Frequency Ceramic Solutions

2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

Detail Specification: 2/11/2021

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