

Original Design Chip Antenna Data Sheet

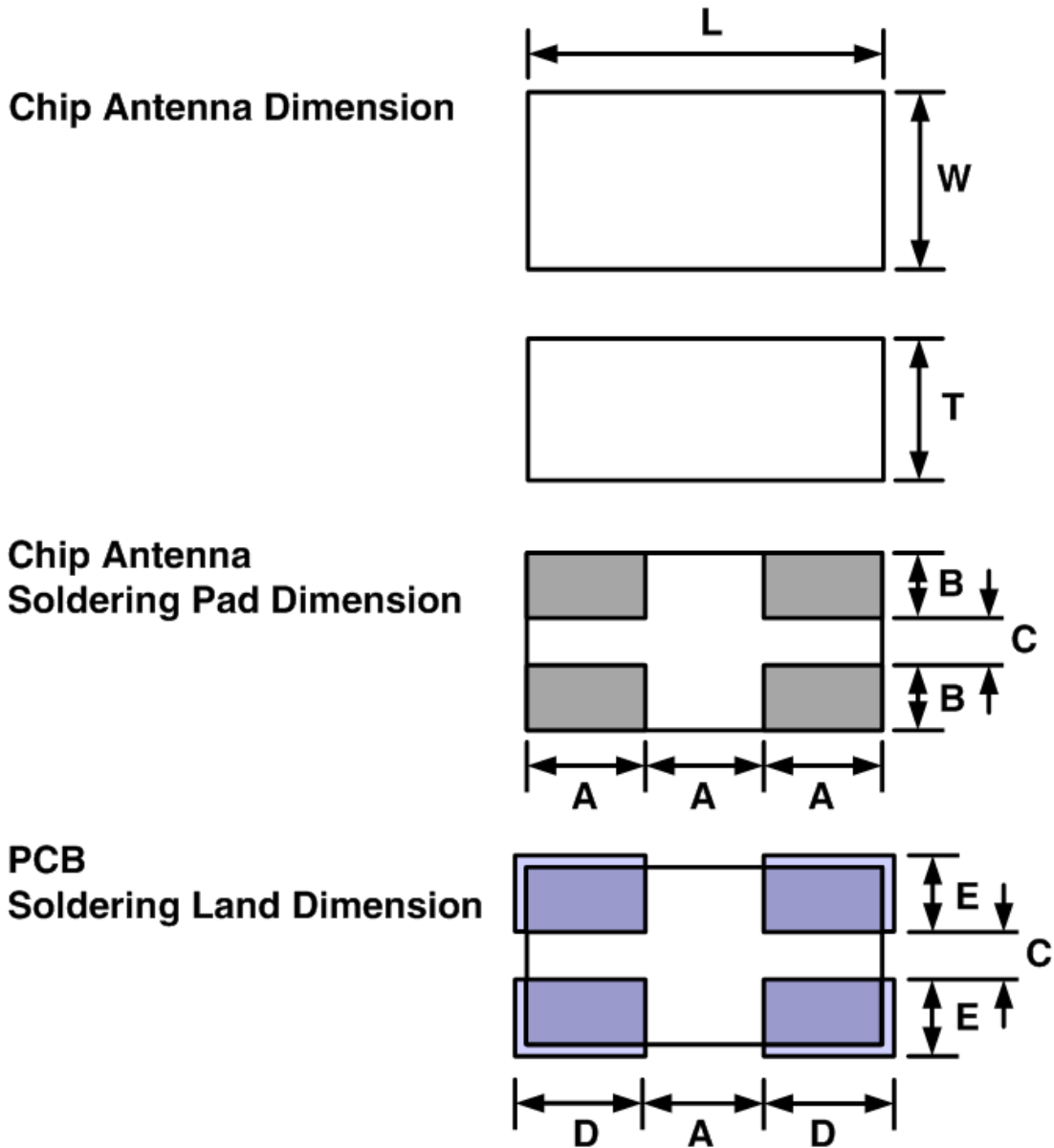
- P/N : SDBTPTR3015 -

- Application Frequency	
	Band[MHz]
Bluetooth	2400 ~ 2485

Dielectric Chip Antenna



■ SDBTPTR3015 Dimension



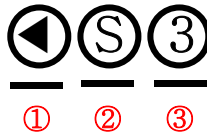
Parameter	L	W	T	A	B	C	D	E
Value[mm]	3.0 ± 0.1	1.5 ± 0.1	1.2 ± 0.1	1.0	0.55	0.4	1.1	0.65

Unless Specified tolerances are ± 0.05 mm

Dielectric Chip Antenna

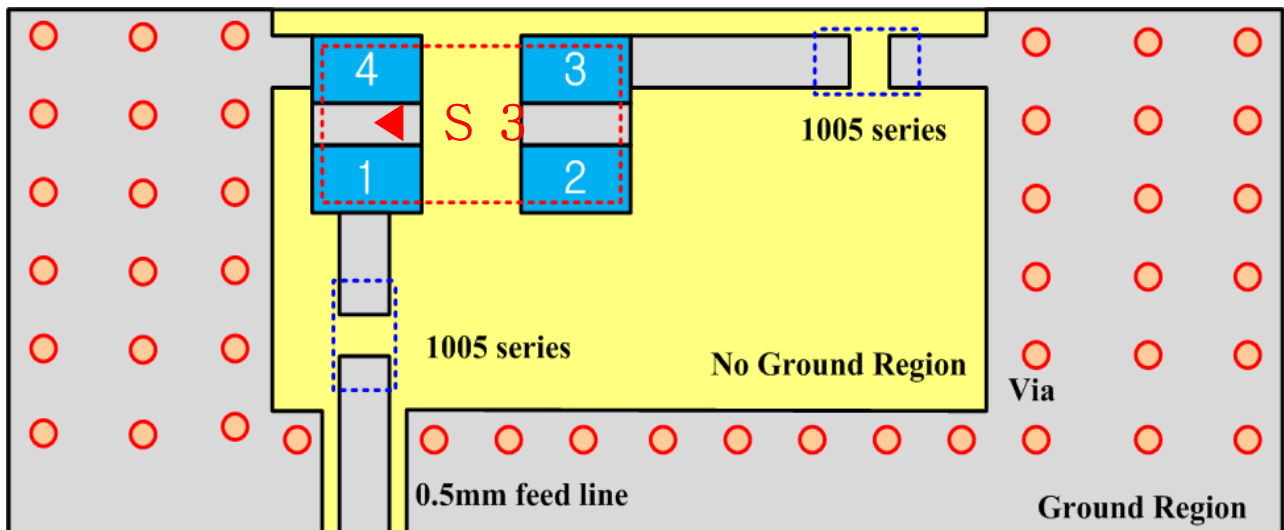


Antenna Marking System



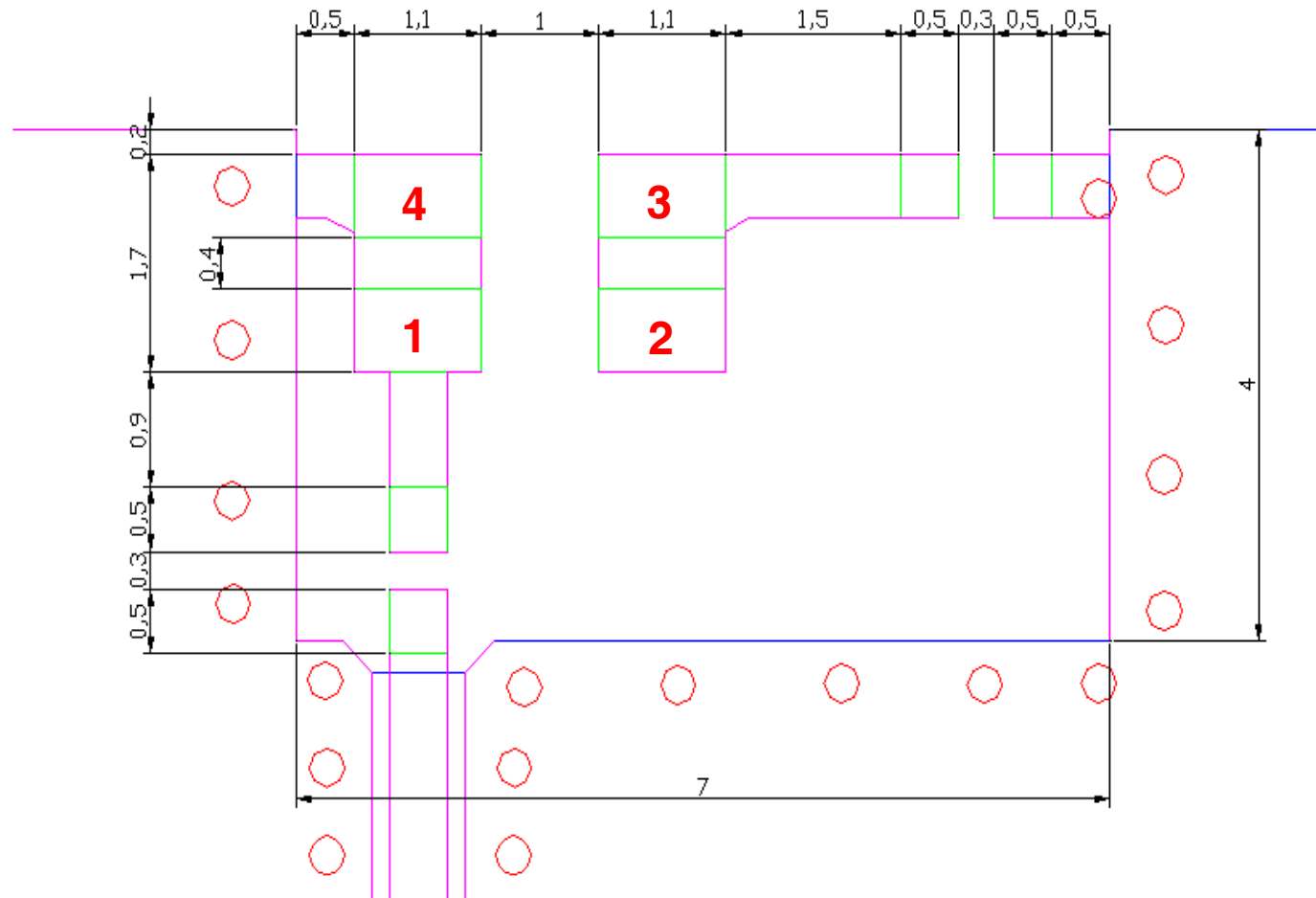
ITEM	DESCRIPTION																								
① Input Signal	Input Signal																								
② Serial	SDBTPTR3015																								
③ Month	<table border="1"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>February</td> <td>March</td> <td>April</td> <td>May</td> <td>June</td> </tr> <tr> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> </tr> <tr> <td>July</td> <td>August</td> <td>September</td> <td>October</td> <td>November</td> <td>December</td> </tr> </tbody> </table>	1	2	3	4	5	6	January	February	March	April	May	June	7	8	9	A	B	C	July	August	September	October	November	December
	1	2	3	4	5	6																			
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July	August	September	October	November	December																				

Antenna PAD Information



Dielectric Chip Antenna

■ AutoCAD Drawing of Reference PCB Design for SDBTPTR3015 Product



Dielectric Chip Antenna



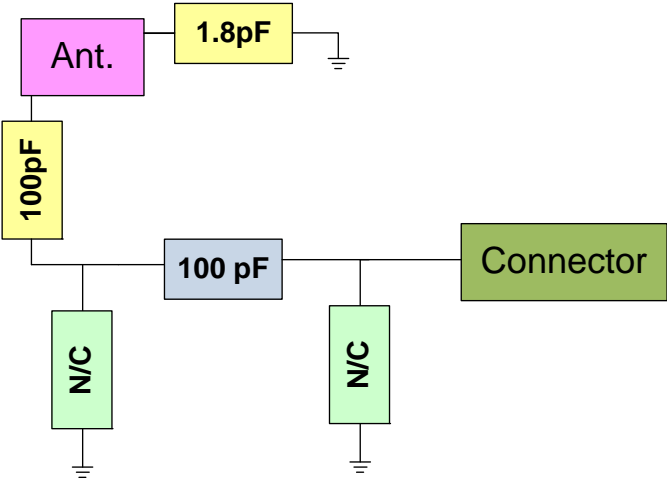
PCB Drawing

Top View	Case #1 <Default>		
	Case #2		
	Case #3		
	Case #4		
Bottom View		<Equivalent Circuit>	

Dielectric Chip Antenna



■ Matching Value

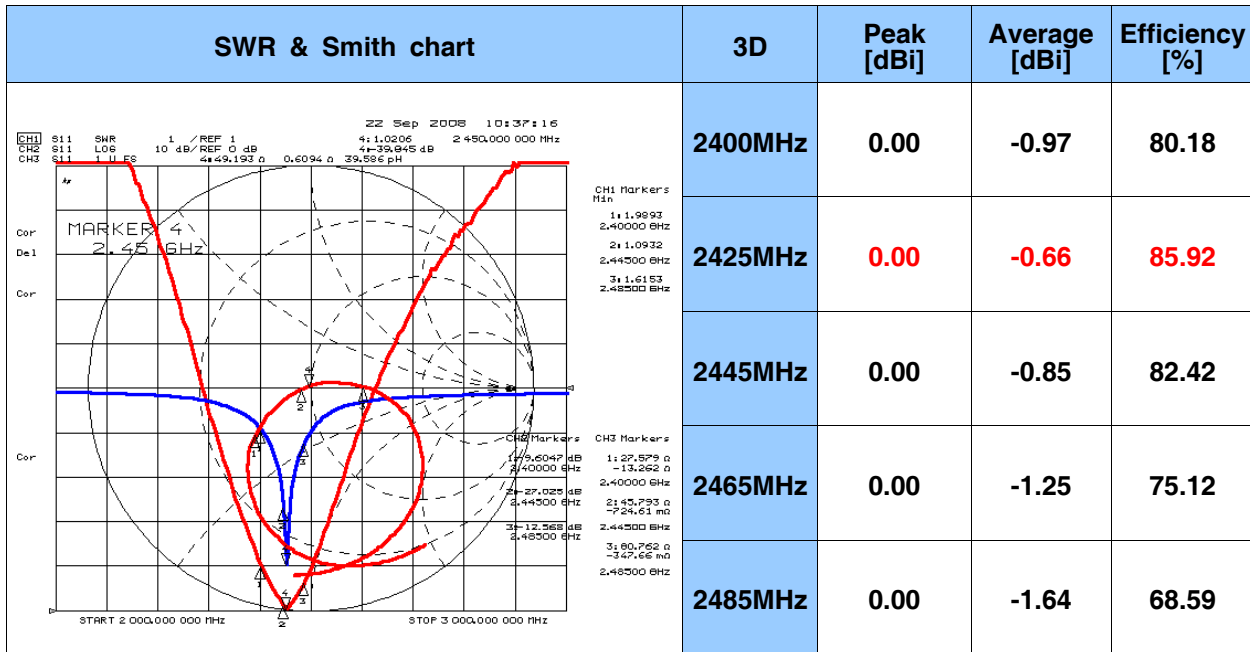
Band (MHz)	Matching Value (Default)
Bluetooth / WiFi / Zigbee (2400 ~ 2485)	 <p>The diagram shows a matching network circuit. It starts with a pink box labeled 'Ant.' connected to a yellow box labeled '1.8pF' which is grounded. Below the antenna is a yellow box labeled '100pF' which is also grounded. The main signal path goes from the antenna through the '100pF' capacitor to a grey box labeled '100 pF' which is grounded. This is followed by another yellow box labeled '100pF' which is grounded. Finally, the signal path goes through a green box labeled 'N/C' (Not Connected) which is grounded, and then through a green box labeled 'N/C' which is grounded, and finally through a green box labeled 'Connector'.</p>

Dielectric Chip Antenna



- 3D Passive Gain For Bluetooth / WiFi / Zigbee

■ Test Result for Ver 0.0



■ Radiation Pattern Ver 0.0

