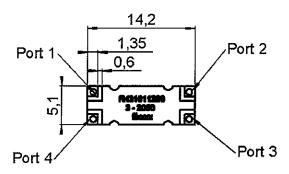
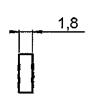
3DB / 1.9 -2.2 GHZ

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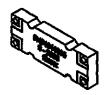


RF Port configuration

	· ii · oii ooiiiigaiaiioii			
	Input	Isol.	-90°	0
Port	1	2	3	4
	2	1	4	3
	3	4	1	2
	4	3	2	1



Scale 1:1



All dimensions are in mm.



Issue: 0450 B



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#### **ELECTRICAL CHARACTERISTICS**

Specified band	Extended band
1.9 - 2.2	1.7 - 2.4
≤ 1.17	1.2
50	
3	3
$\pm$ 0.2	0.35
± 2	3
≥ 23	20
≤ 0.2	0.2
60	60
	$ \begin{array}{r} 1.9 - 2.2 \\ \leq 1.17 \\ 50 \\ 3 \\ \pm 0.2 \\ \pm 2 \\ \geq 23 \\ \leq 0.2 \end{array} $

### **MECHANICAL CHARACTERISTICS**

Mounting RF Port finish Weight Surface Mount Technology Chemical Sn 1.000 g

### **ENVIRONMENTAL**

Operating temperature range

-55 / +85

°C

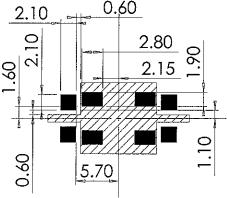
Storage temperature range

-55 / +85

°C

# **SPECIFICATION**

## **SOLDERING PATTERN**



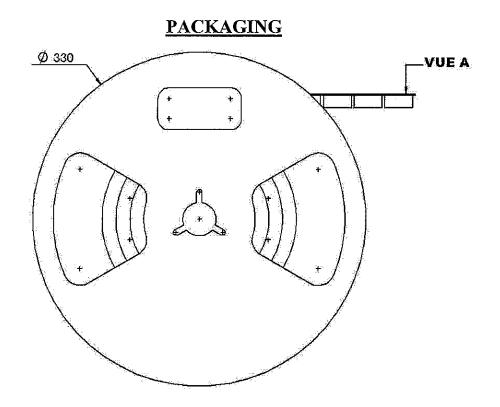
Issue: 0450 B

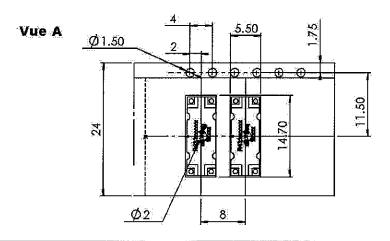


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Issue: 0450 B



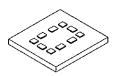
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#### **SOLDERING GUIDELINES**

1) Solder cream deposition:



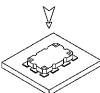
RADIALL recommends using a solder cream Sn96.5 - Ag3 - Cu0.5 type "no clean - low residue" (50 % solid residue of flux quantity) that will permit the elimination of the cleaning operation step after soldering. When using a conventional solder cream with high level of flux solid residue, it is important to incorporate a good cleaning operation step in the fifteen minutes after soldering.

The substrate must have chemical Sn protection. Please optically verify that the edges of the zones are clean, without contaminates and that the PCB zoned areas have not oxydated.

Solder cream may be applied on the board with screen printing or dispenser techniques. For either method, the paste solder must be coated to appropriate thickness and shapes to achieve good solder wetting and adequate insulation.

The design of the mounting pads and the stencilling area are given in the applicable note, for a thickness of the silk-screen printing of 150  $\mu m$ .

(2) Placement of the coupler:



For small , lightweight components such as chip components , a self-alignment effect can be expected if small placement errors exist. However, this effect is not as expected for couplers components and they require precise positioning on their soldering pads; typically  $\pm\,0.25$  mm.

Place the coupler onto the PCB with automatic pick and place equipment. Various types of suction can be used.

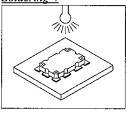
RADIALL does not recommend using adhesive agents on the component or on the  $\ensuremath{\mathsf{PCB}}$  .

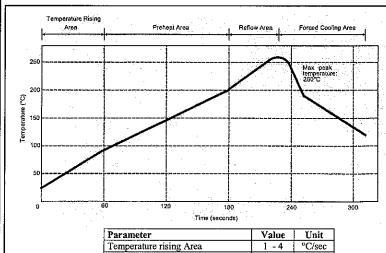
Please follow RADIALL's recommended temperature profile.

This profile can be used with Infra-red reflow Vapor phase sold

This profile can be used with Infra - red reflow, Vapor phase soldering and Forced air convection.

3 Soldering:





Parameter	Value	Unit
Temperature rising Area	1 - 4	°C/sec
Max Peak Temperature	260	°C
Max dwell time @260°C	10	sec
Min dwell time @235°C	20	sec
Max dwell time @235°C	60	sec
Temperature drop in cooling Area	-1 to -4	°C/sec
Max dwell time above 100°C	420	sec

Issue: 0450 B



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