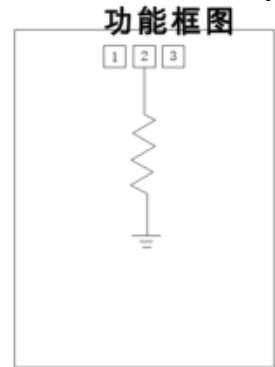


AMT1817-01 / AMT1817-02 / AMT1817-03
DC – 20GHz Power Resistor Chip



Key Technical Specifications and Application :

- Frequency range : DC – 20GHz
- Resistance : 50Ω
- Input voltage standing wave : 1.3
- Power dissipation : 6mA@5V
- Chip dimensions : 1.32mm x 1.72mm x 0.1mm
1.85mm x 2.25mm x 0.1mm
2.55mm x 2.95mm x 0.1mm
- Applications : wireless communication etc.

Product Description :

This is a series of load resistor chip based on SiC substrate, resistance is 50Ω, operating frequency range is DC – 20GHz, input voltage standing wave is 1.3.

Absolute Maximum Ratings (Ta = 25°C)

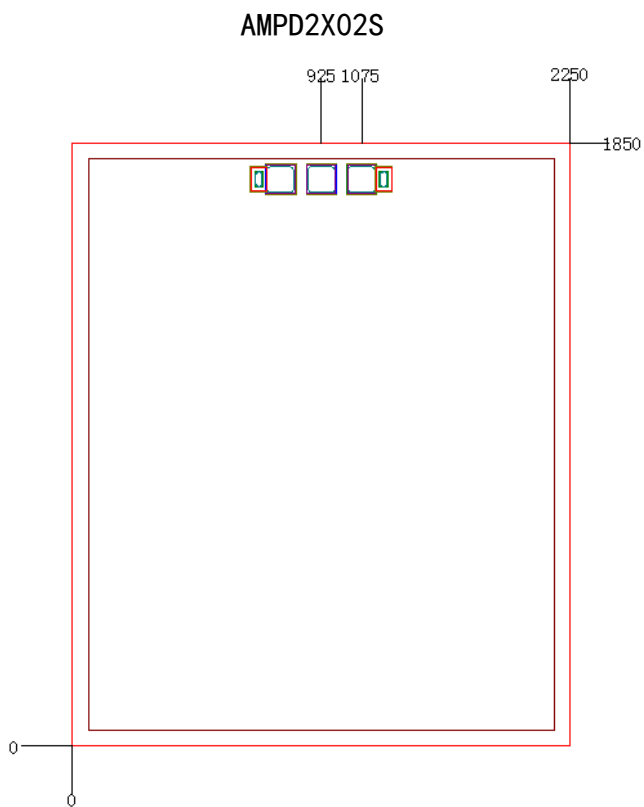
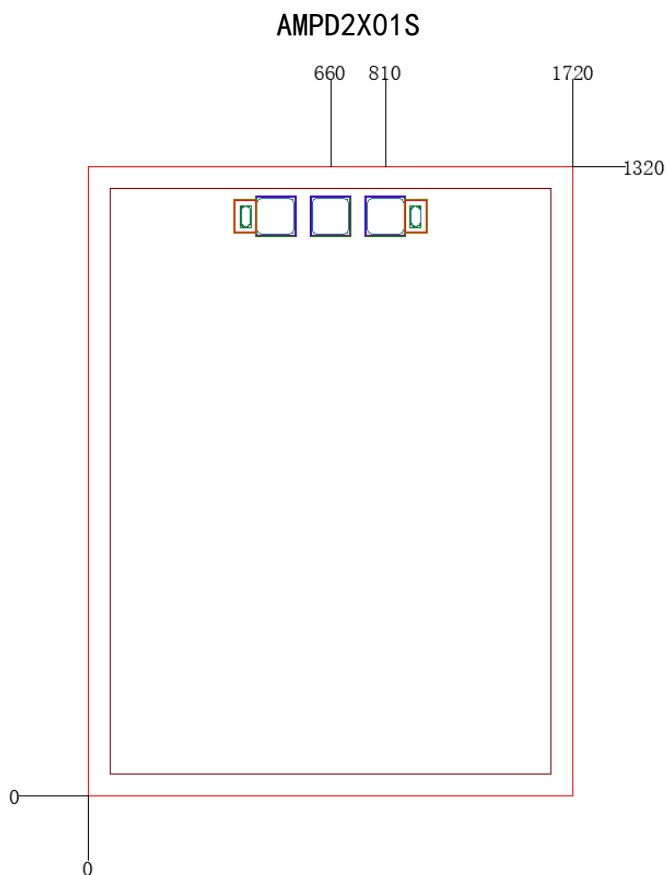
Symbol	Parameter	Value	Remark
Pp	Maximum input power	50W / 80W / 120W	
Im	Maximum flow current	1A / 1.26A / 1.55A	
Tstg	Storage Temperature	-65 ~ +150°C	
Top	Operation Temperature	-55 ~ +125°C	

[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

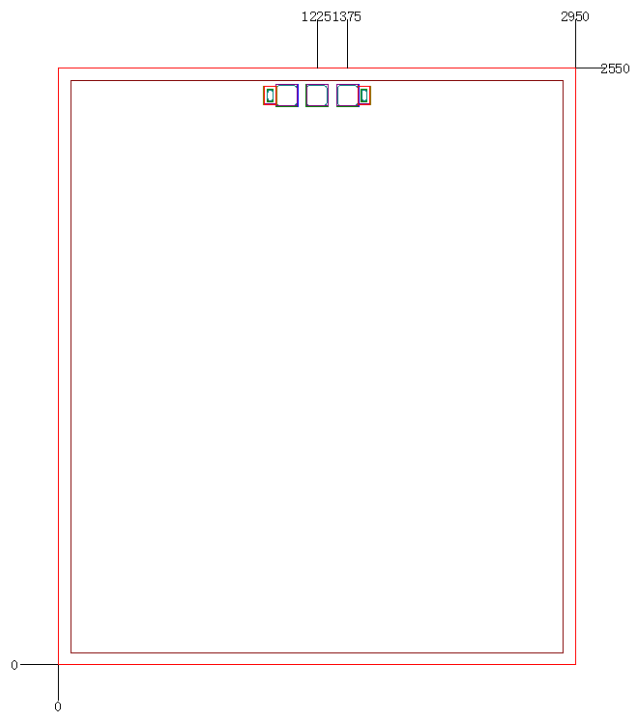
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Index			Unit
		Min	Typ	Max	
F	Frequency range	DC ~ 20			GHz
VSWRin	Input standing wave	-	1.3	-	-
R	Resistance	-	50	-	Ω

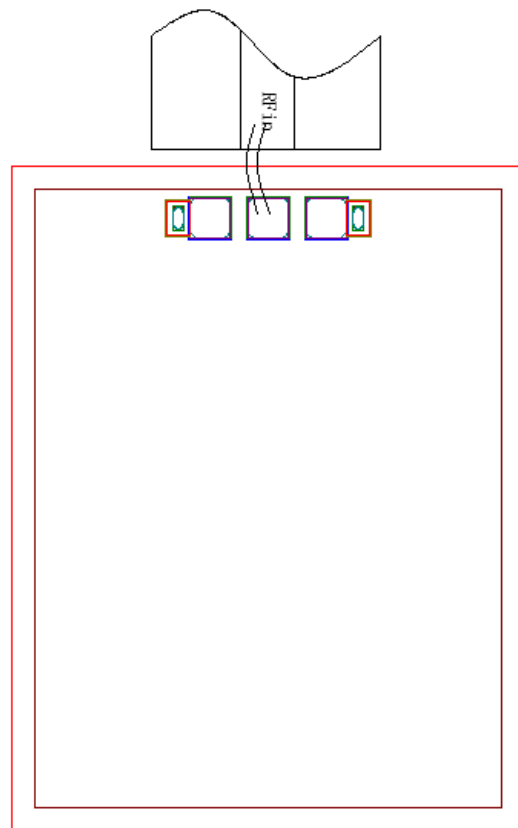
Chip Dimensions (Unit : μm)



AMPD2X03S



Chip Layout Diagram



Please see Appendix A for details.