

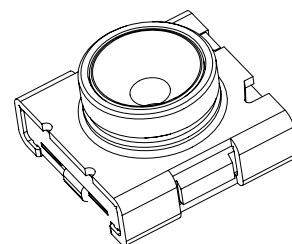
Kinghelm®	Product Specification	DOC. No.: 651-0251-01		Rev.: D	Page: 1/5
	Part Number:	Checker/Date		Inspector/Date	Maker/Date
	KH-3030175-Y1	Henry 06/01/18'		Henry 06/01/18'	SAM 06/01/18'

1、Overview

This product is applied to RF circuits and provides a switch interface for circuit tests , And it' s the first type of the “MINI RF CONNECTOR” .

2、Technology Parameters

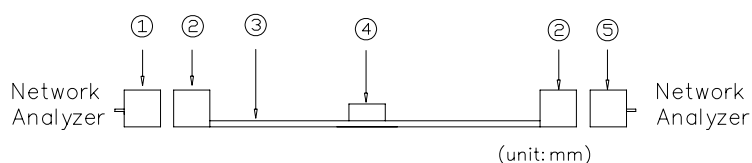
2.1 Rated Voltage	250V AC
2.2 Frequency Range	0~6GHz
2.3 Impedance	50Ω
2.4 Operating Temperature	-40℃ ~+85℃



3、Electrical Performance

3.1 Insulation Resistance	500MΩ
3.2 Dielectric Withstanding Voltage	300V AC
3.3 Contact Resistance	120 mΩ max
3.4 Voltage Standing Wave Ratio(VSWR)	1.2 max (DC~3GHz) , 1.3 max (3~6GHz)

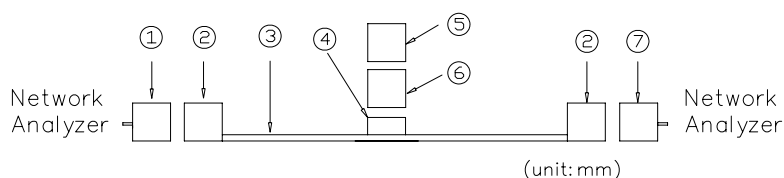
3.4.1 Test Methods:



- | | |
|-------------------|-------------|
| ① Port 1 | ④ 818000251 |
| ② SMA Jack | ⑤ Port 2 |
| ③ Microstrip line | |

3.5 Isolation 20dBmin (DC~3GHz) , 15dBmin (3~6GHz)

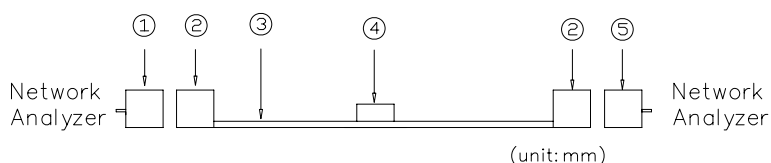
3.5.1 Test Methods:



- | | |
|-------------------|-----------------------------------|
| ① Port 1 | ④ 818000251 |
| ② SMA Jack | ⑤ Termination |
| ③ Microstrip line | ⑥ Probe for automatic measurement |
| | ⑦ Port 2 |

3.6 Insertion loss 0.10dBmax (DC~3GHz) , 0.20dBmax (3~6GHz)

3.6.1 Test Methods:



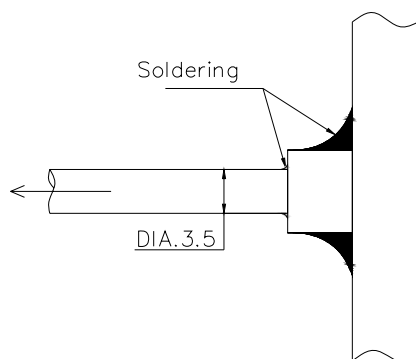
- | | |
|-------------------|-------------|
| ① Port 1 | ④ 818000251 |
| ② SMA Jack | ⑤ Port 2 |
| ③ Microstrip line | |

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		Checker/Date Henry 06/01/18'		Inspector/Date Henry 06/01/18'	Maker/Date SAM 06/01/18'
	Part Number: KH-3030175-Y1				

4、Mechanical Performance

- | | |
|------------------------------|------------|
| 4.1 Contact Stress | 3.4N~4.5N |
| 4.2 Mating Force | 30N max |
| 4.3 Unmating Force | 5N~40N |
| 4.4 Durability | 500 cycles |
| 4.5 Adhered Force of Solders | 50N |

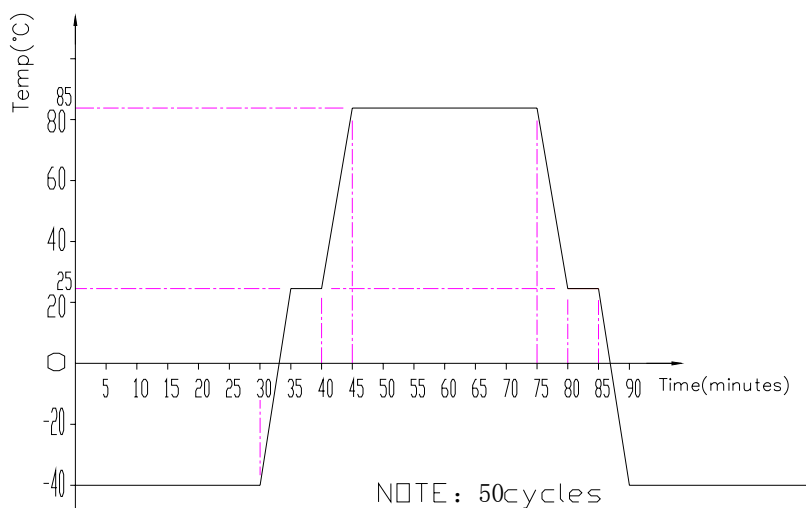
4.5.1 Test Methods:



- | | |
|---------------|---|
| 4.6 Shock | Acceleration: 750m/s^2 (Peak);
Duration of Shock: 6m sec.
Wave form: Half-sine |
| 4.7 Vibration | 10Hz~30Hz : 3mm |

5、Environment Performance

5.1 Thermal Shock



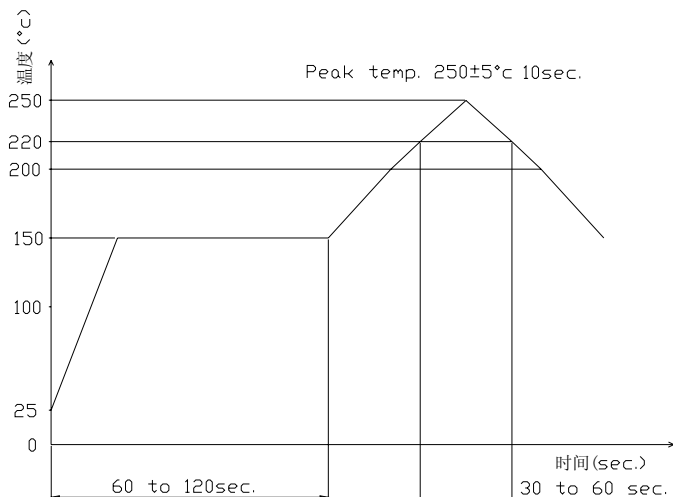
5.2 Static Humidity & Thermal Test

Temperature: 60°C
Humidity: 95% RH
Time: 96 hours

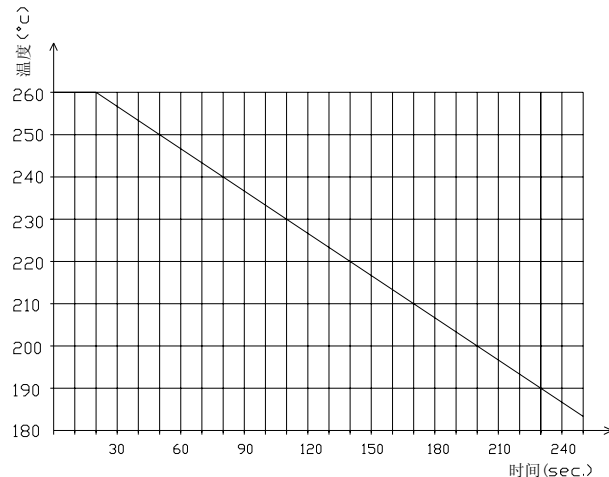
	Product Specification		DOC. No.: 651-0251-01	Rev.: D	Page: 3/5
	Part Number: KH-3030175-Y1		Checker/Date Henry 06/01/18'	Inspector/Date Henry 06/01/18'	Maker/Date SAM 06/01/18'

6、SMT Temperature Curve

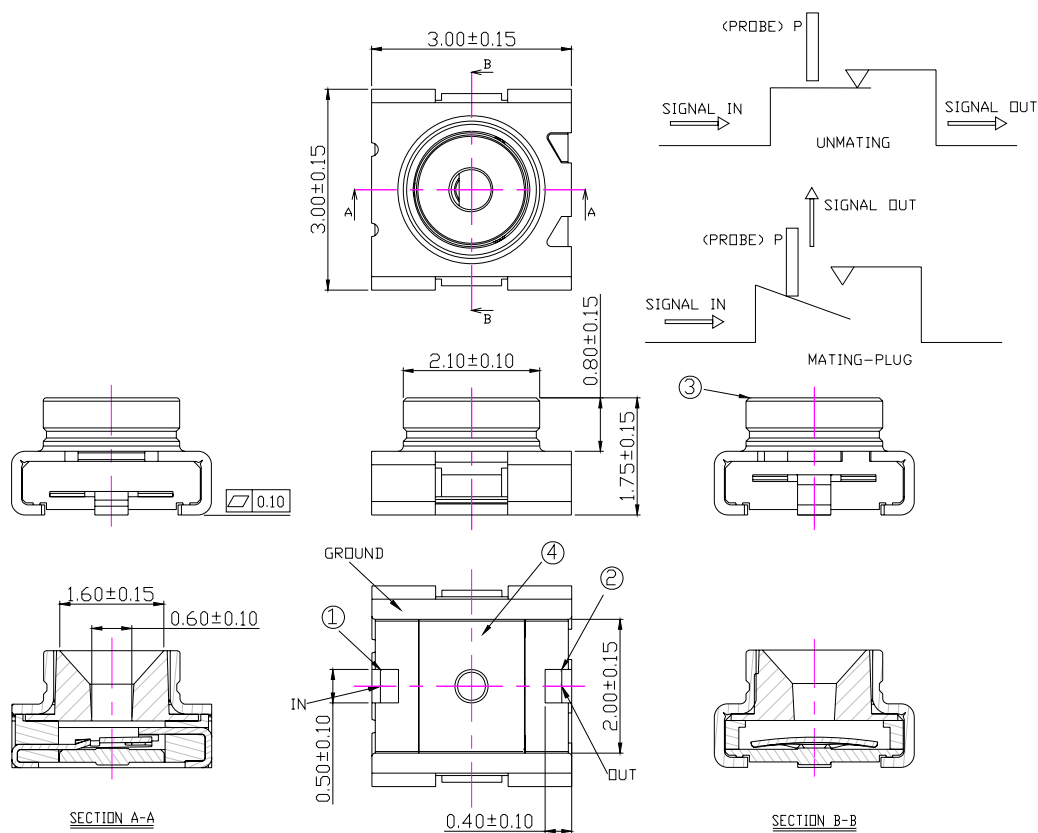
6.1 Reflow Soldering Standard Conditions



6.2 Allowable Temperature and Time of Reflow Soldering



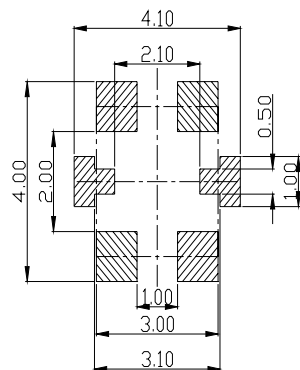
7、Appearance Dimension



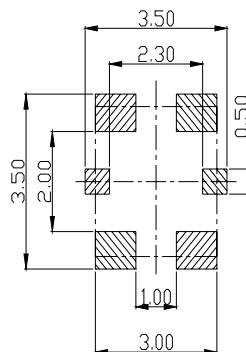
4	Case	Engineering plastic	UL 94V-0, BLACK	1
3	Output terminal	Copper Alloy	50u"Ni Overall, Contact Area Au2u", Soldering Area Gold Flash	1
2	Input terminal(R)	Copper Alloy	50u"Ni Overall, Contact Area Au5u", Soldering Area Gold Flash	1
1	Input terminal(C)	Stainless Steel	50u"Ni Overall, Contact Area Au5u", Soldering Area Gold Flash	1
No.	Part Name	Material	Finish	Q'ty

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				Maker/Date SAM 06/01/18'	

8、Printed circuit board (PCB) pad



Recommend PCB Layout
General Tolerance: ± 0.05

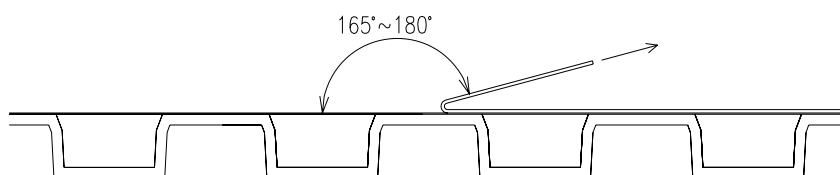


The standard solder stencil mask pattern
(Mask thickness 0.15mm)

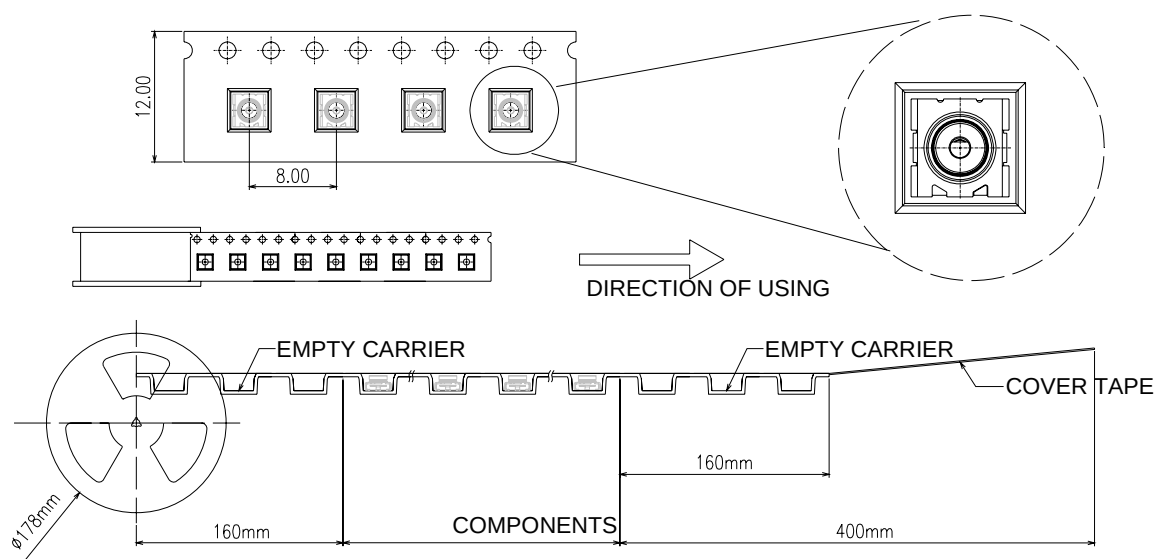
9、PACKING SPECIFICATION

9.1 Peeling off Force of Cover Tape

When cover tape is peeled off as in right figure by a speed of 300mm/minute. The peeling off force should be 1.3N maximum.



9.2 THE WAY OF PACKAGE : TAPE PACKING, 1000Pcs/REEL ($\Phi 178\text{mm}$)



10、Storage Conditions

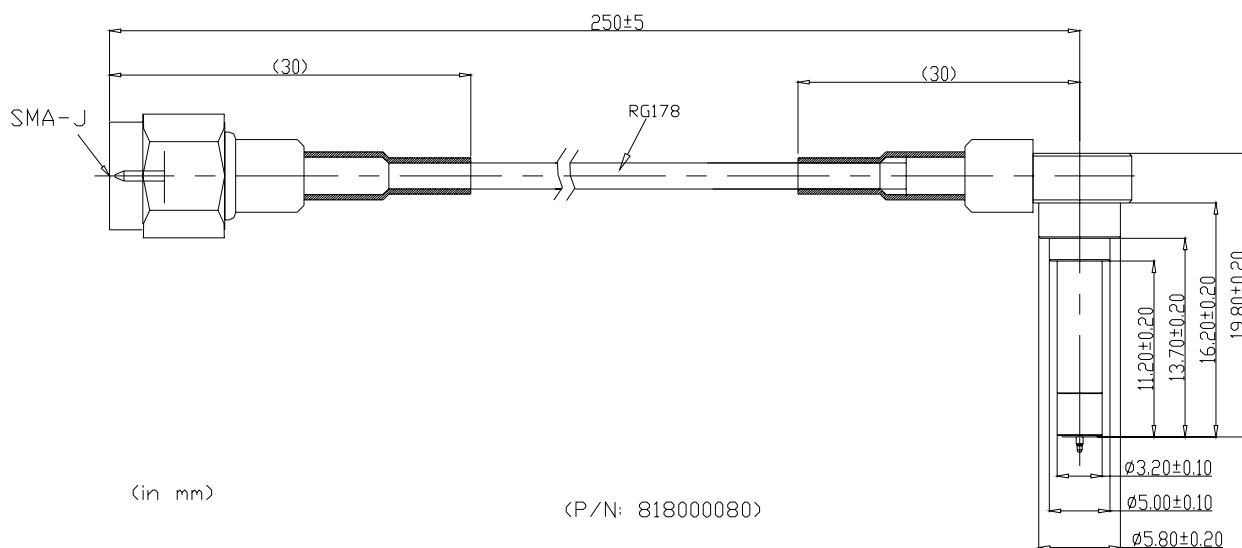
Temperature: $-10 \sim +40\text{ }^{\circ}\text{C}$

Moisture: 15~85 % RH

Valid Period: 6 months

11 、 Accessories for Tests

TYPE I :



TYPY II :

