

1. PART NO. EXPRESSION :

W 2 0 1 2 F 6 7 0 - R D - □ □

(a) (b) (c) (d) (e)(f) (g)

(a) Series code

(b) Dimension code

(c) Material code

(d) Impedance code : 670 = 67Ω

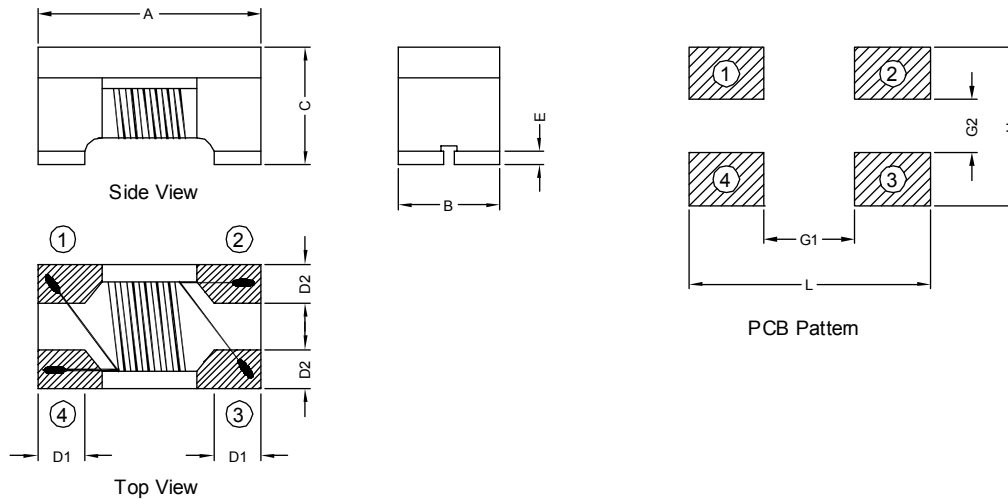
(e) R : Tape & Reel

(f) Rated Current : D = 400mA

(g) 10: Standard

11 ~ 99 : Internal control number

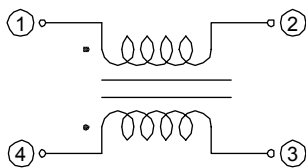
2. CONFIGURATION & DIMENSIONS :



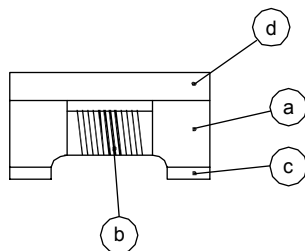
Unit:m/m

A	B	C	D1	D2	E	G1	G2	H	L
2.00 ± 0.2	1.20 ± 0.2	1.20 ± 0.2	0.55 ± 0.1	0.46 ± 0.1	0.15 ± 0.1	1.20 Ref.	0.50 Ref.	1.20 Ref.	2.60 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core

(b) Wire

(c) Terminal

(d) Core



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5. GENERAL SPECIFICATION :

- a) Operating temp. : -40° C to 125° C
- b) Storage condition (component in its packaging)
 - i) Temperature : -10 to 40° C
 - ii) Humidity : 60%

6. ELECTRICAL CHARACTERISTICS :

Part No.	Common mode Impedance (Ω)	Test Frequency (MHz)	DCR (Ω) Max.	Rated Current (mA)	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	IR (Ω) Min.
W2012F500-RD-10	50 ± 25%	100	0.25	400	50	125	100M
W2012F670-RD-10	67 ± 25%	100	0.30	400	50	125	100M
W2012F900-RD-10	90 ± 25%	100	0.30	400	50	125	100M



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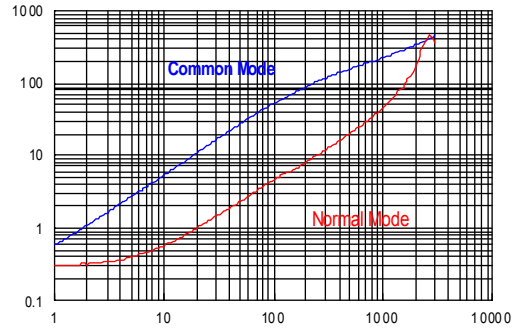


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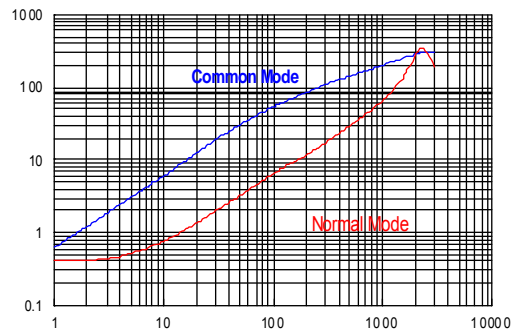
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7. CHARACTERISTICS CURVES :

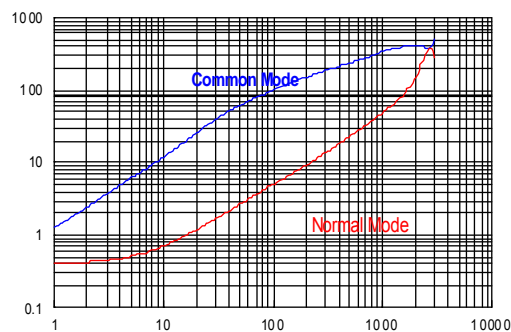
W2012F500-RD-10



W2012F670-RD-10



W2012F900-RD-10



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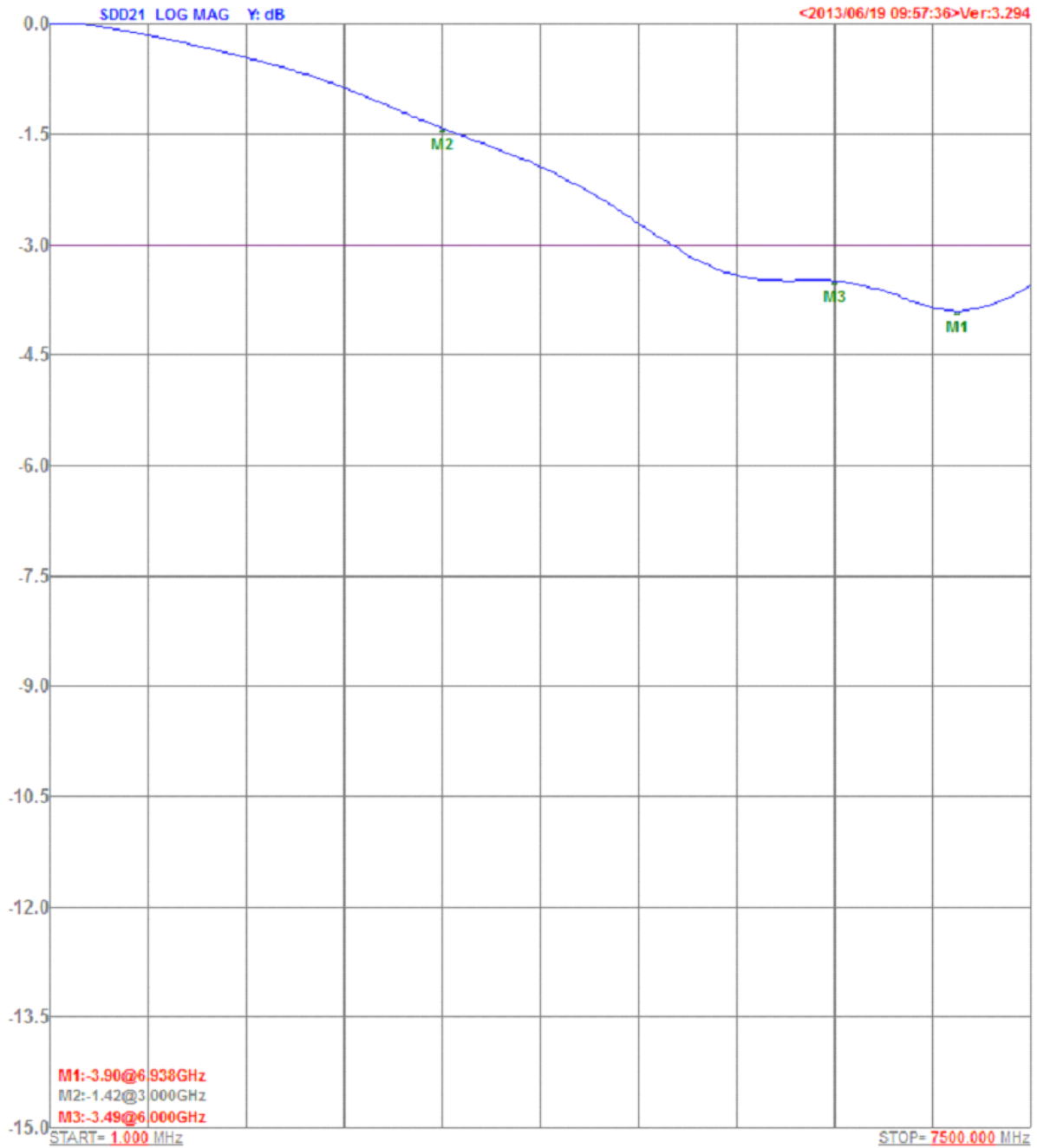
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7.1 Insertion Loss Test

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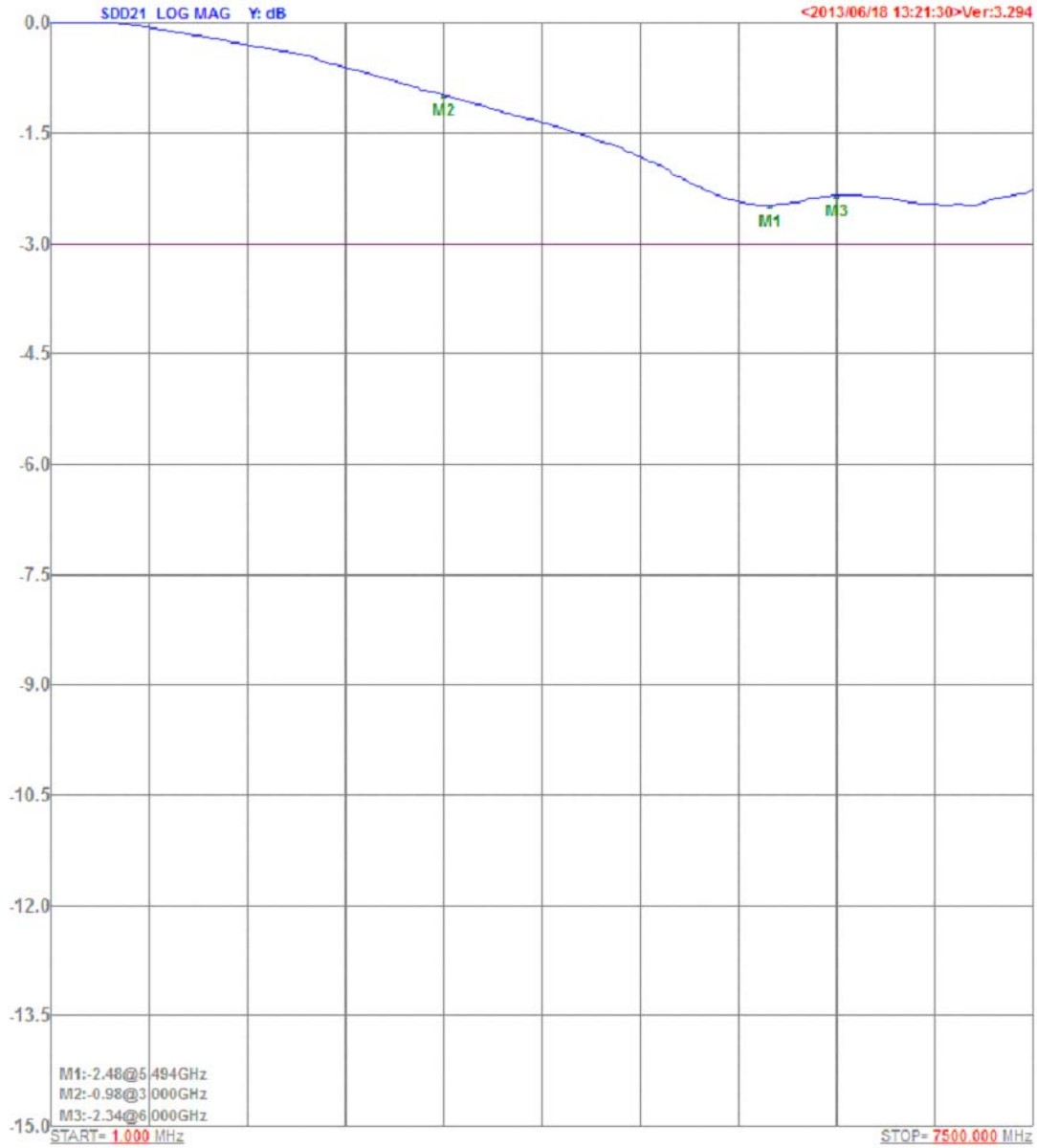
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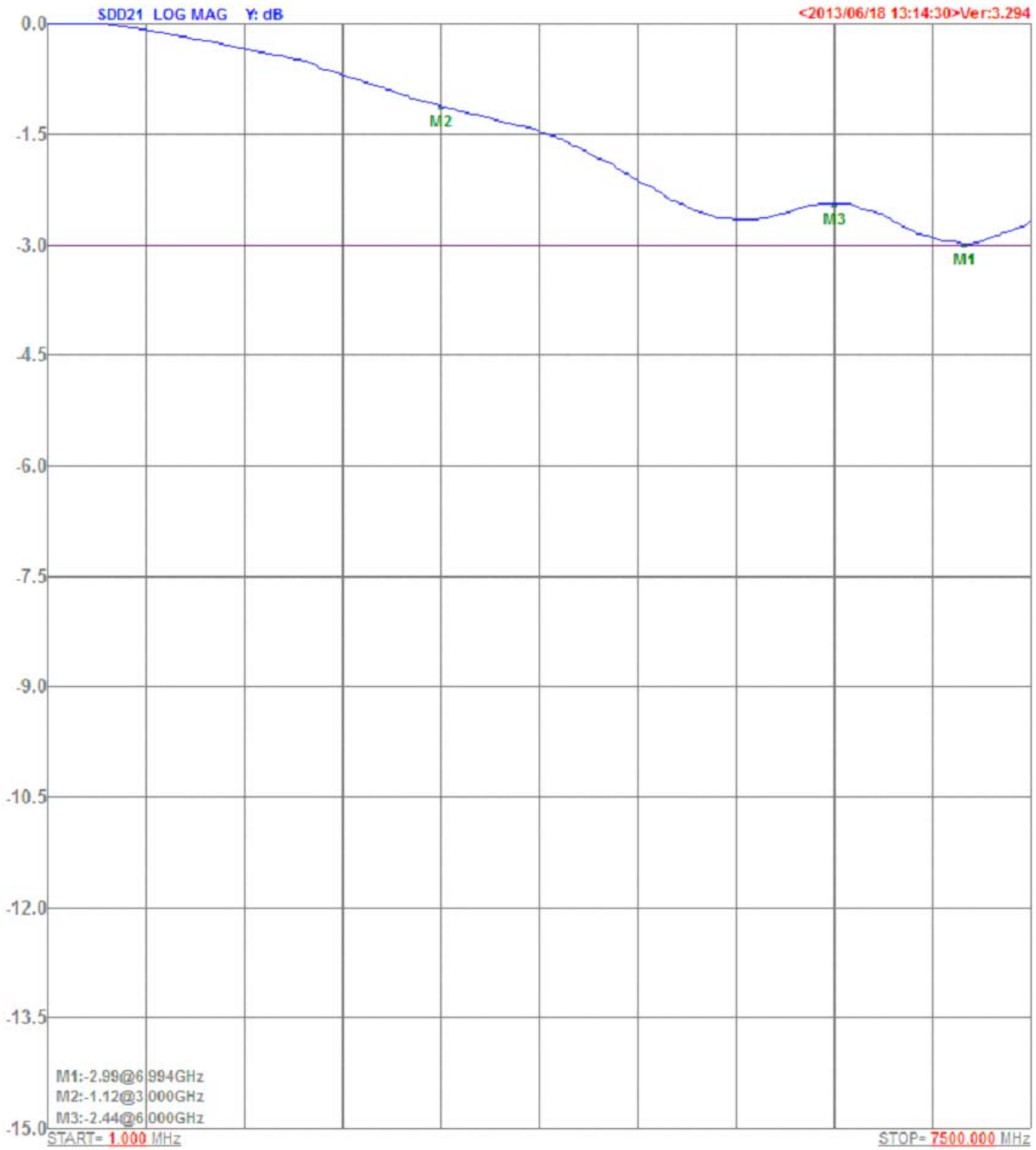
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8. SOLDERING AND MOUNTING :

8-1. Soldering

Mildly activated rosin fluxes are preferred. Our terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-1.1 Solder Re-flow :

Recommended temperature profiles for re-flow soldering in Figure 1.

8-1.2 Soldering Iron (Figure 2) :

Products attachment with soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Note :

- a) Preheat circuit and products to 150° C.
- b) 355° C tip temperature (max)
- c) Never contact the ceramic with the iron tip
- d) 1.0mm tip diameter (max)
- e) Use a 20 watt soldering iron with tip diameter of 1.0mm
- f) Limit soldering time to 4-5 secs.

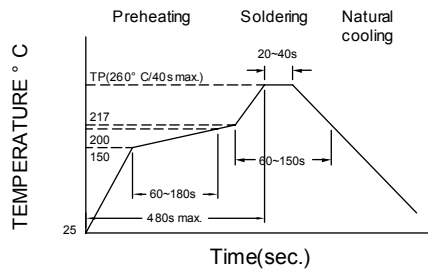


Figure 1. Re-flow Soldering : 3 times max.

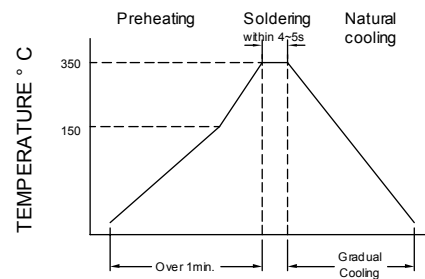


Figure 2. Iron Soldering times: 1 times max.



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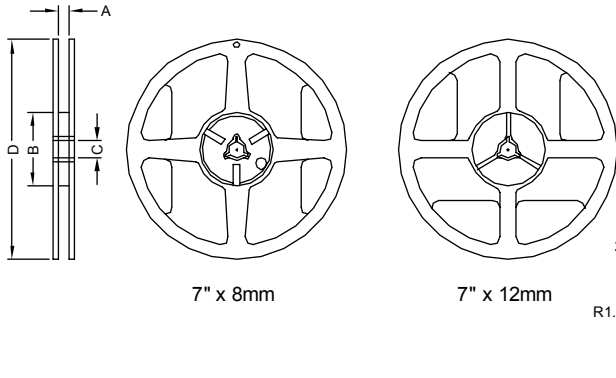


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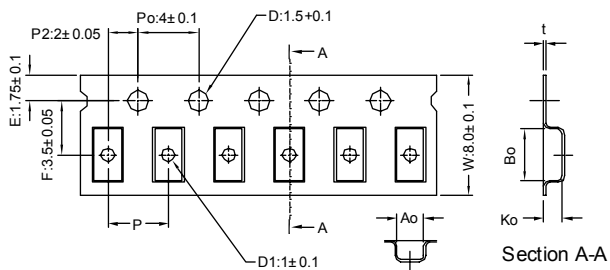
9. PACKAGING INFORMATION :

9-1. Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7" x 8mm	9.0±0.5	60.0±2.0	13.5±0.5	178.0±2.0

9-2 Tape Dimension / 8mm



Series	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	t(mm)
W2012	1.50±0.10	2.25±0.10	1.35±0.10	4.0±0.1	0.22±0.05

9-3. Packing Quantity

Series	W2012
Chip / Reel	2000
Inner Box	10000
Middle Box	50000
Carton	100000



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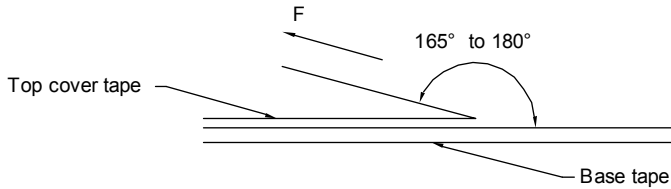
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9-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp. (° C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed (mm/min)
5~35	45~85	860~1060	300

Application Notice

1. Storage Conditions :

To maintain the solderability of terminal electrodes :

- Recommended products should be used within 12 months from the time of delivery.
- The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation :

- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- The use of tweezers or vacuum pick up is strongly recommended for individual components.
- Bulk handling should ensure that abrasion and mechanical shock are minimized.



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