WIREWOUND TYPE COMMON MODE FILTER

W2012 SERIES

1. PART NO. EXPRESSION :

W 2012 F 670 - RD - ☐ ☐

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

(a) Series code

(b) Dimension code

(c) Material code

(d) Impedance code : 670 = 67Ω

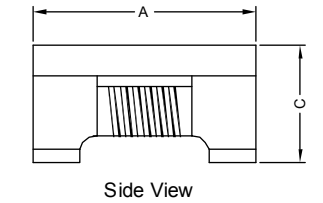
(e) R : Tape & Reel

(f) Rated Current : D = 400mA

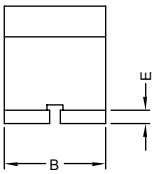
(g) 10: Standard

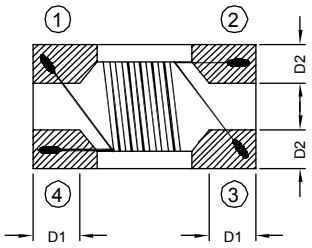
11 ~ 99 : Internal control number

2. CONFIGURATION & DIMENSIONS :

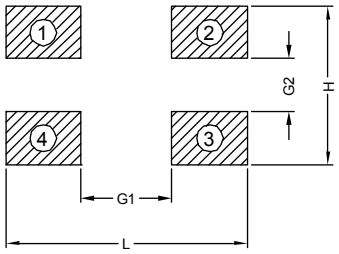


Side View





Top View

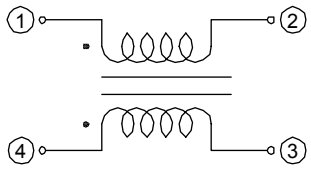


PCB Pattern

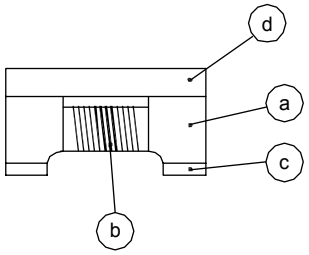
Unit:m/m

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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NOTE : Specifications subject to change without notice. Please check our website for latest information.

20.05.2014

SUPERWORLD ELECTRONICS (S) PTE LTD

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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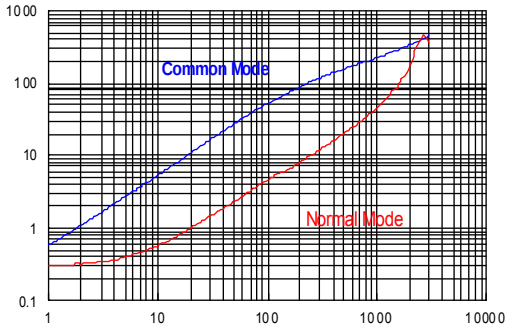
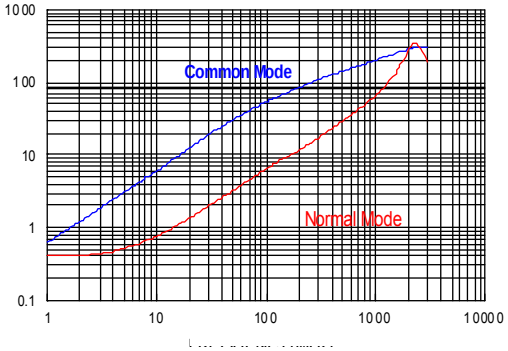
7. CHARACTERISTICS CURVES :

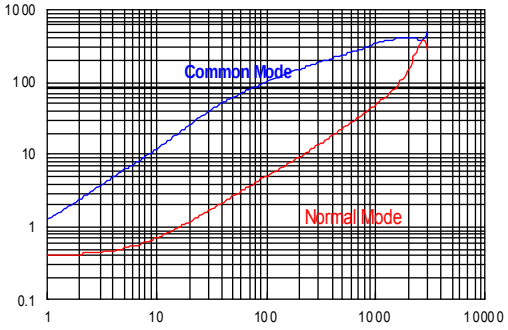
W2012F500-RD-10



W2012F670-RD-10



W2012F900-RD-10



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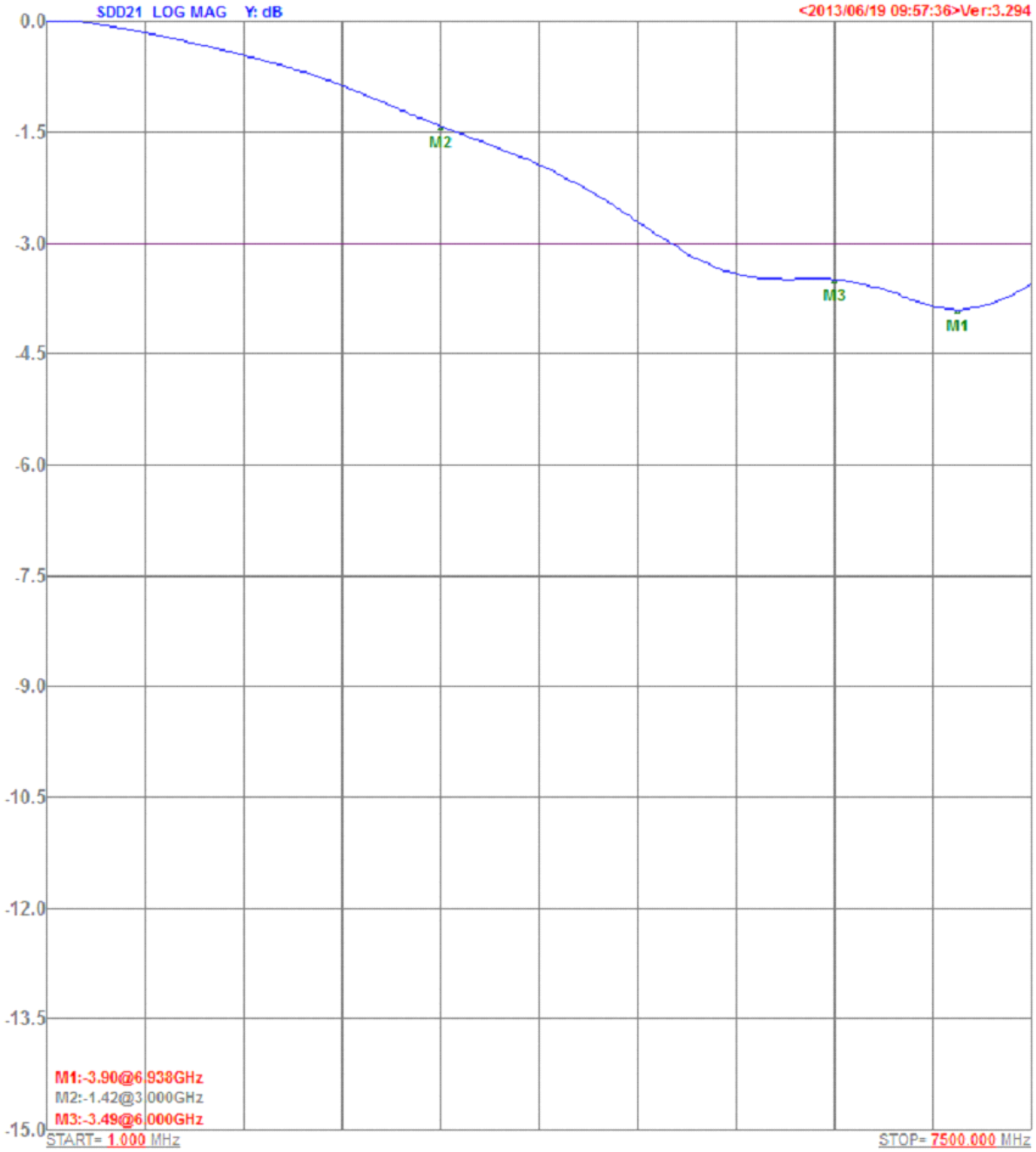
7.1 Insertion Loss Test

W2012F500-RD-10



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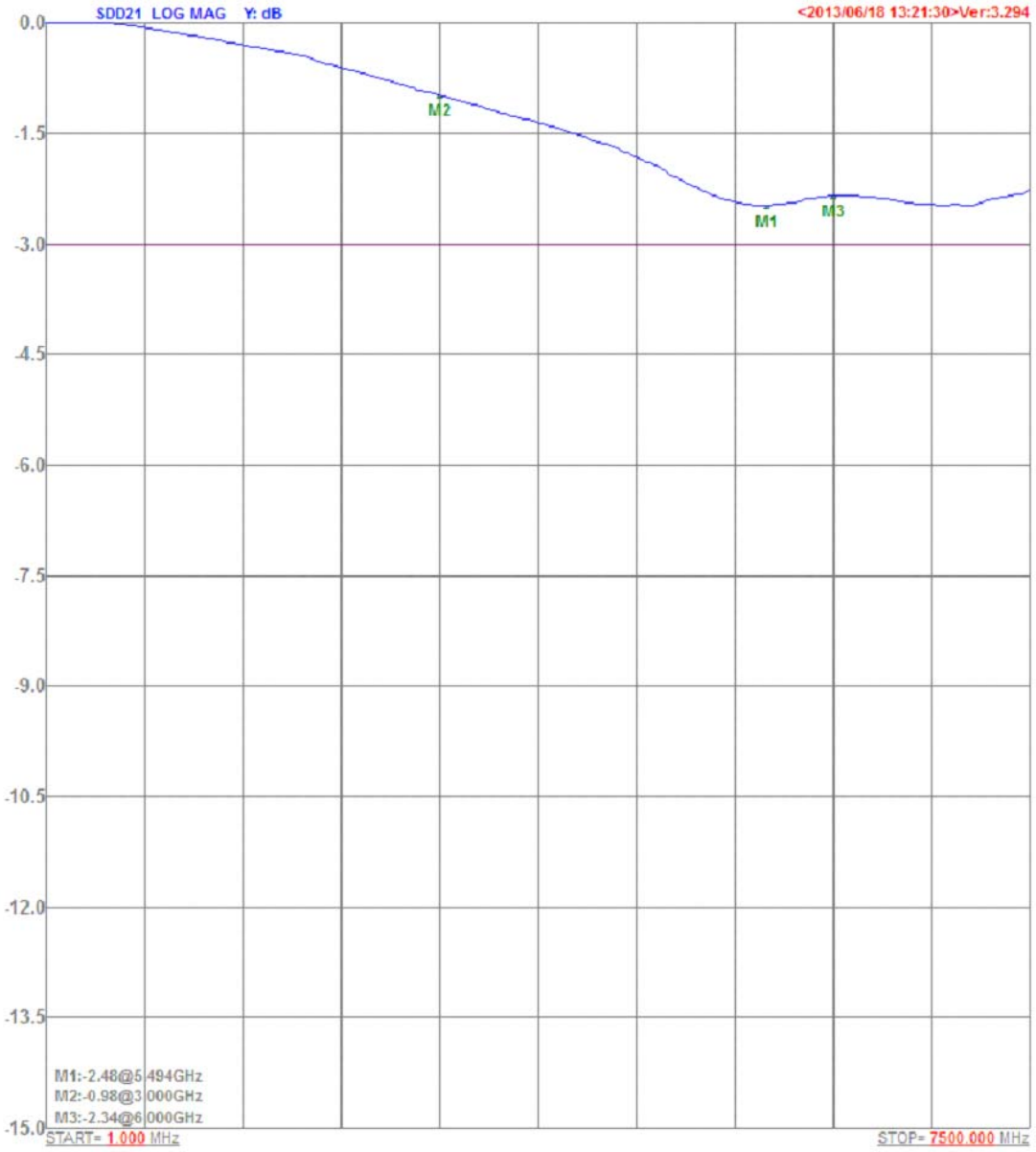
W2012F670-RD-10



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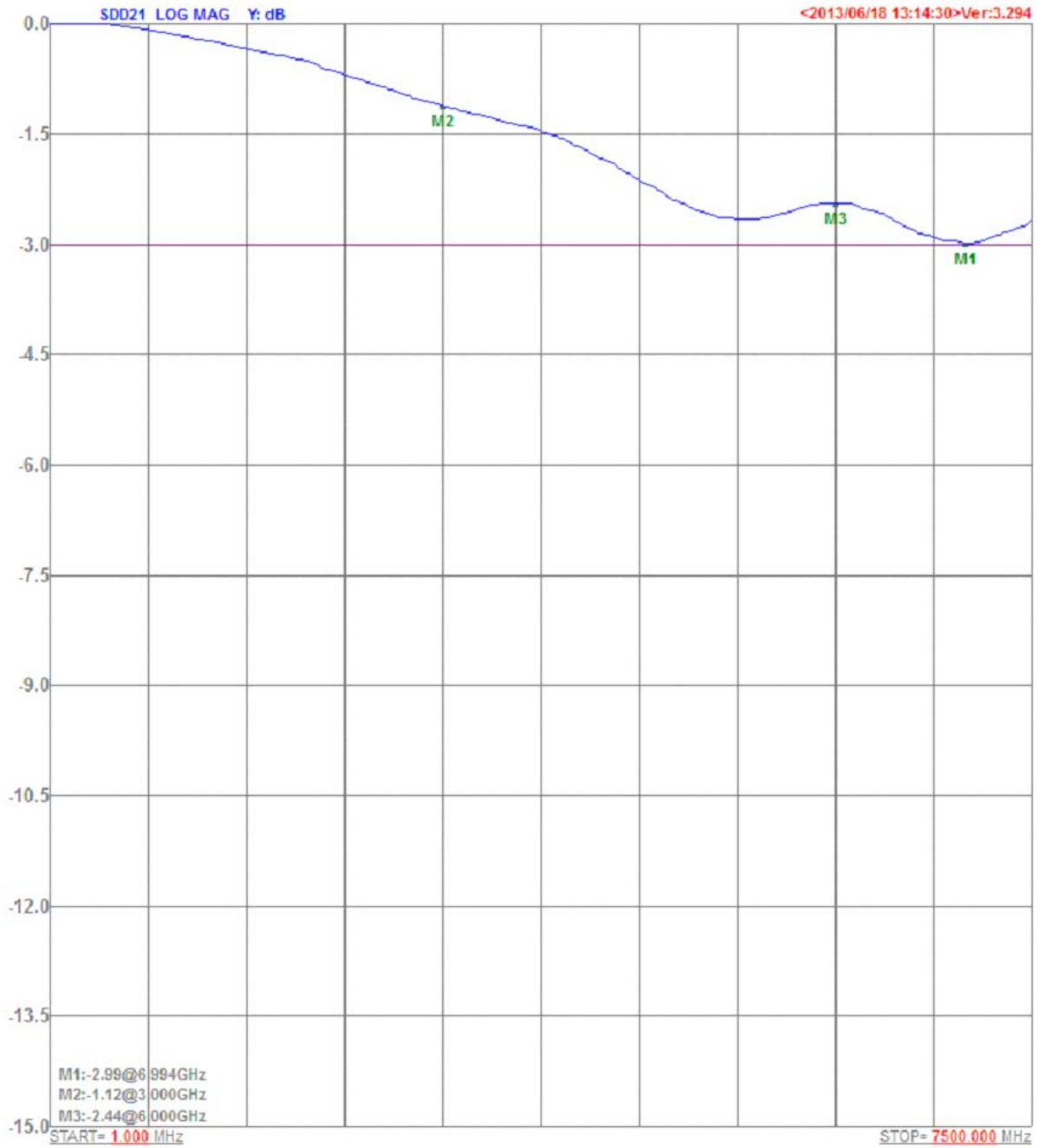
W2012F900-RD-10



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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.

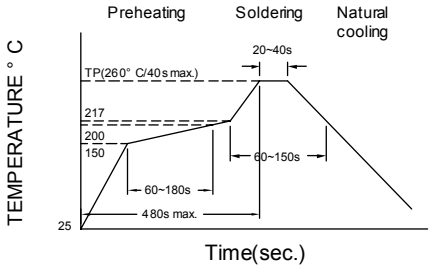

Figure 1. Re-flow Soldering : 3 times max.

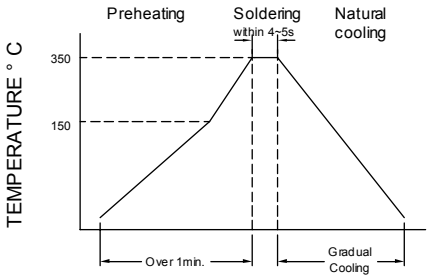

Figure 2. Iron Soldering times: 1 times max.

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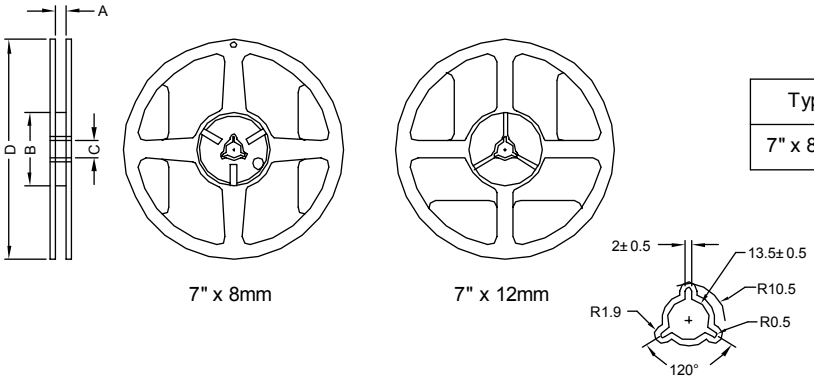
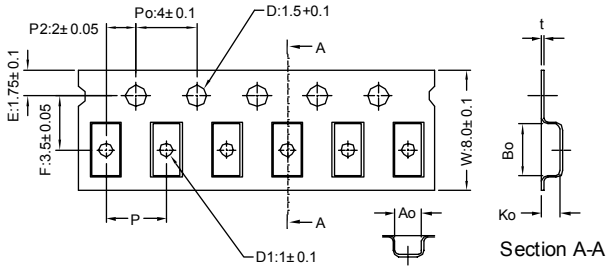
9. PACKAGING INFORMATION :

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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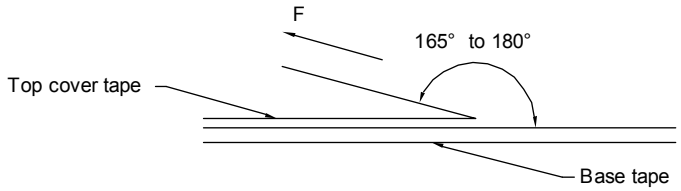
9-4. Tearing Off Force



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 solderabililty of terminal electrodes :
   a) Recommended products should be used within 12 months from the time of delivery.
   b) The packaging material should be kept where no chlorine or sulfur exists in the air.

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

Pb

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