

SAW Filter 836.50MHz
Part No: MP09849

Model: TA1691A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 29dBm
2. DC Voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 1 (MSL 1)
6. ESD: 100V (MM), 200V (HBM)

B. ELECTRICAL CHARACTERISTICS:

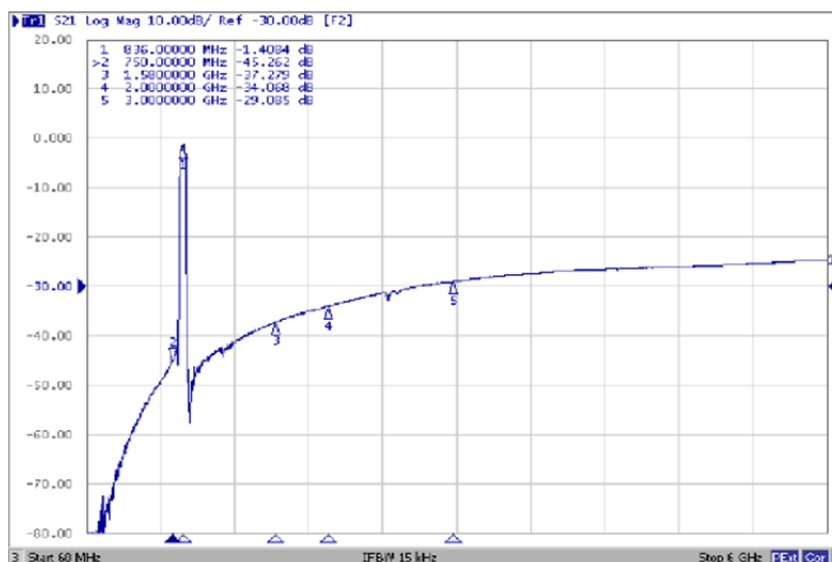
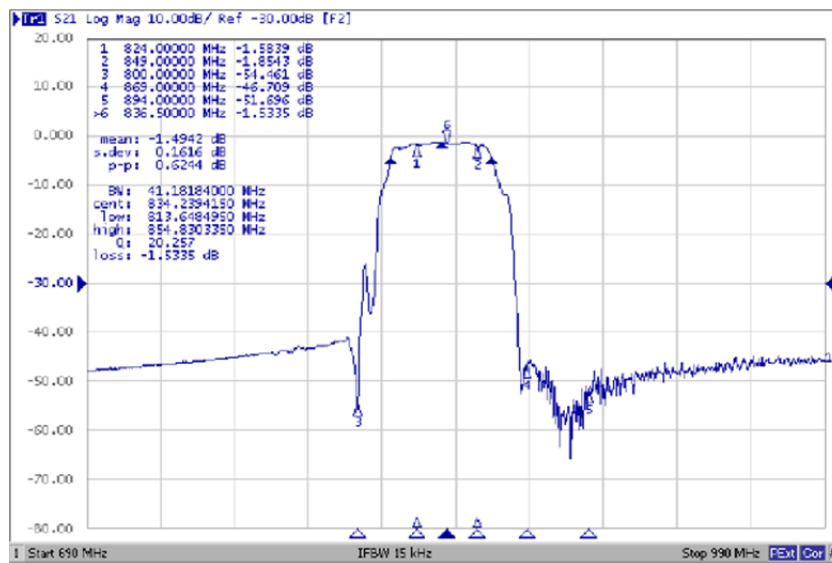
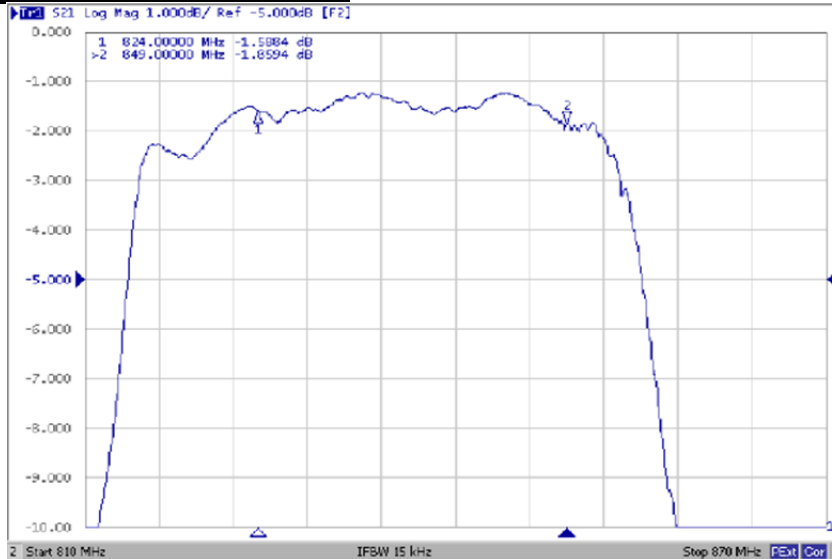
1. Terminating source impedance: $Z_S = 50\Omega$ (Single-ended)
2. Terminating load impedance: $Z_L = 50\Omega$ (Single-ended)

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	836.5	-
Insertion Loss (824 ~ 849MHz) IL	dB	-	1.9	2.6
Amplitude Ripple (824 ~ 849MHz)	dB p-p	-	0.7	1.6
VSWR (824 ~ 849MHz)	-	-	1.8	2.3
Attenuation (Reference level from 0dB)				
DC ~ 750MHz	dB	35	45	-
750 ~ 800MHz	dB	28	41	-
869 ~ 894MHz	dB	35	44	-
894 ~ 1050MHz	dB	38	45	-
1050 ~ 1210MHz	dB	35	44	-
1210 ~ 1580MHz	dB	30	39	-
1580 ~ 2000MHz	dB	28	36	-
2000 ~ 3000MHz	dB	23	31	-
3000 ~ 6000MHz	dB	12	22	-

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C. FREQUENCY CHARACTERISTICS:

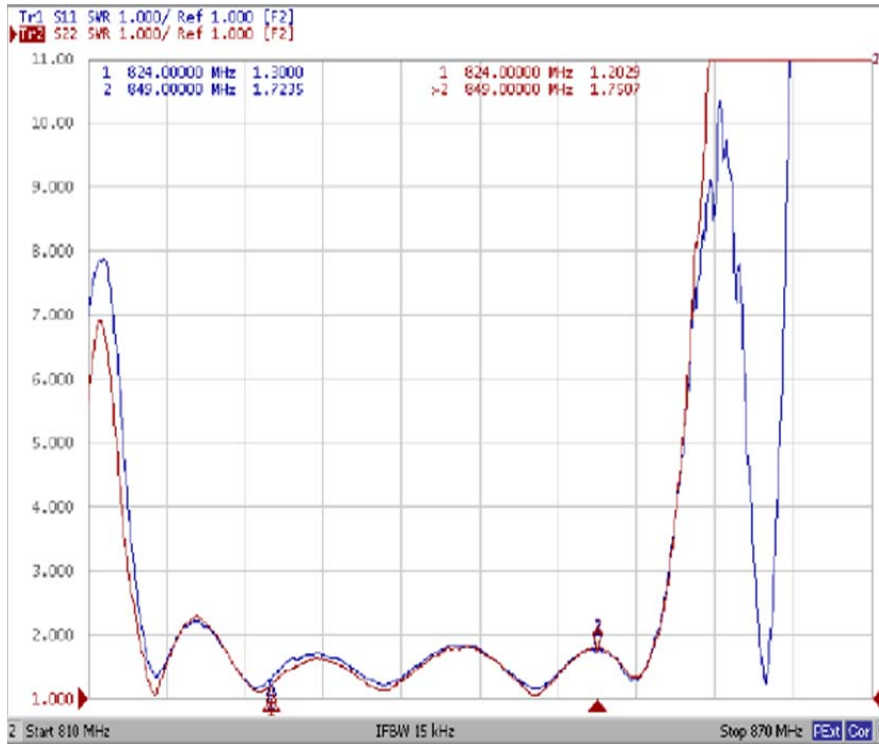


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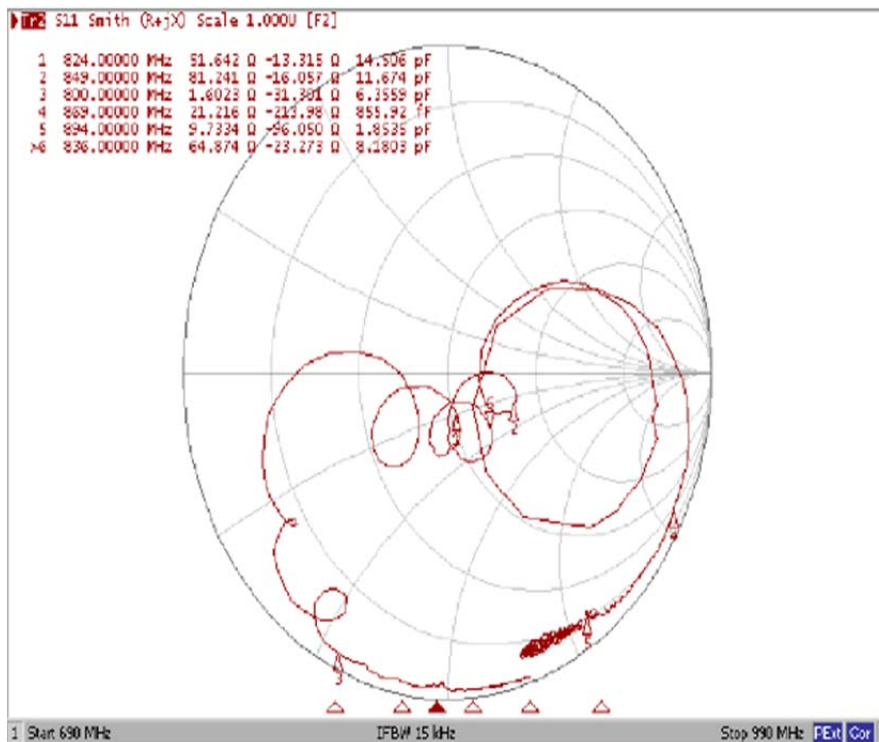
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Reflection Functions:

1. VSWR

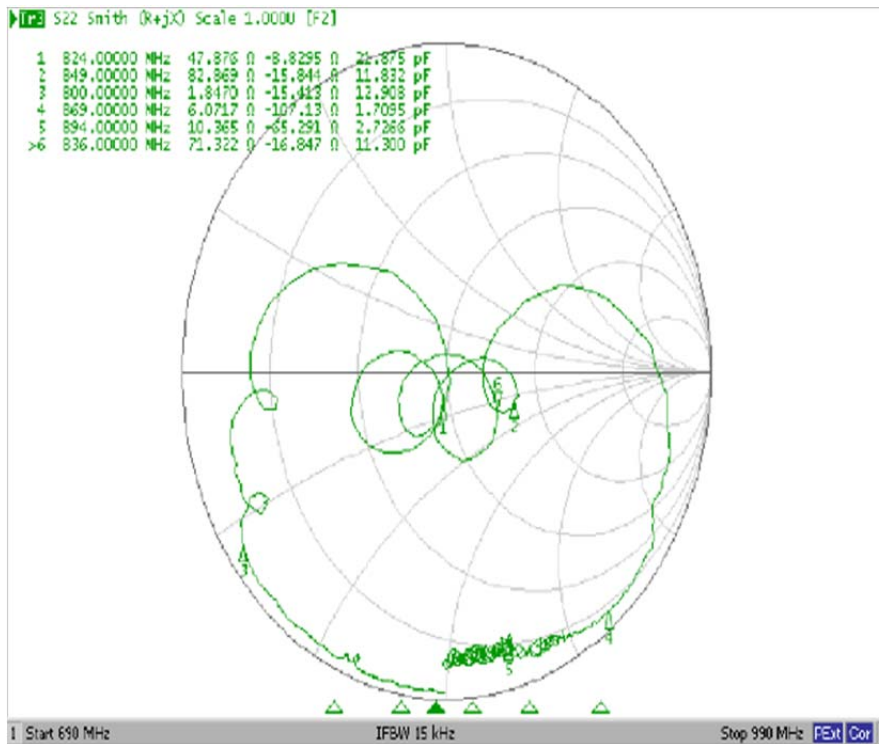


2. Smith Chart

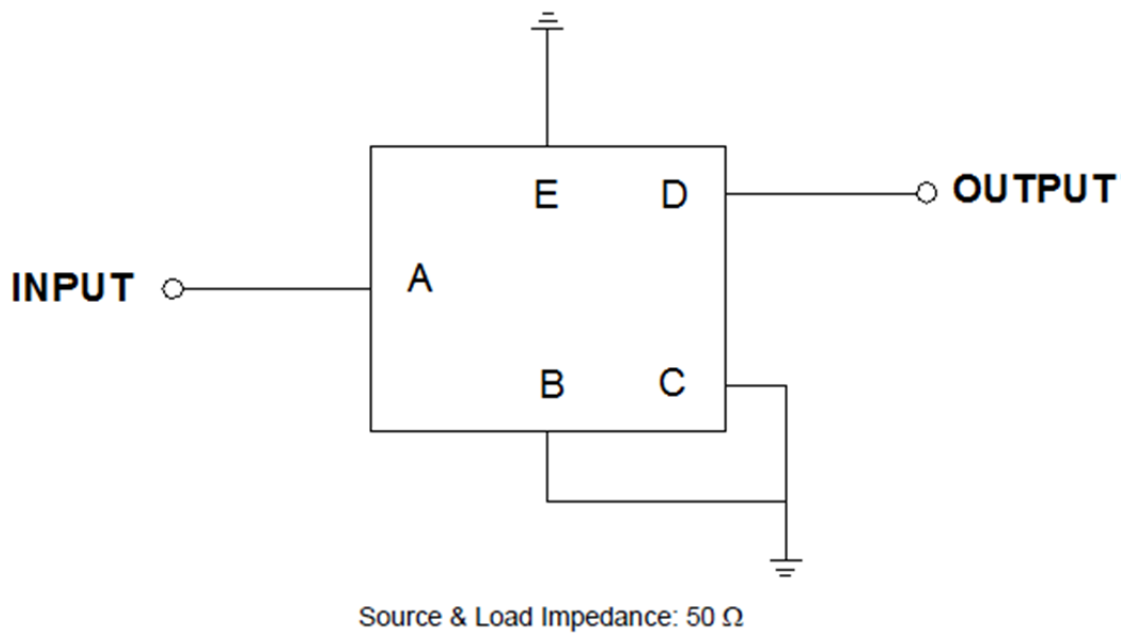


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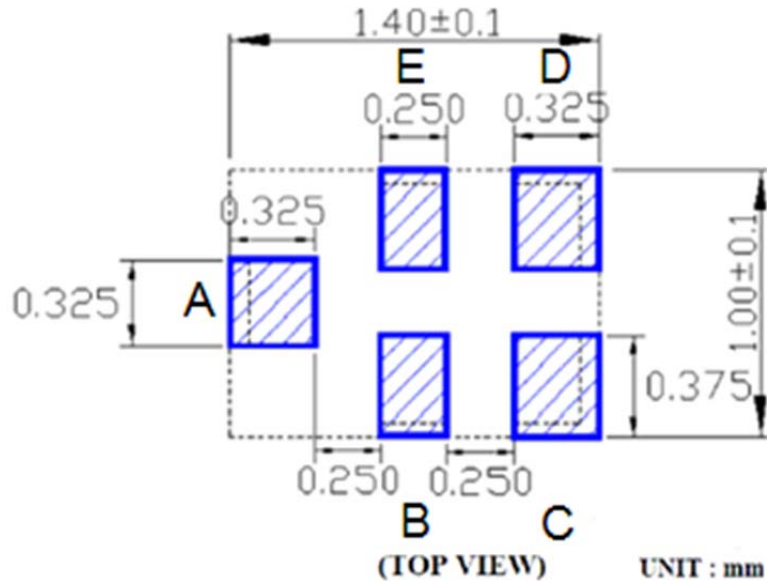
D. MEASUREMENT CIRCUIT:



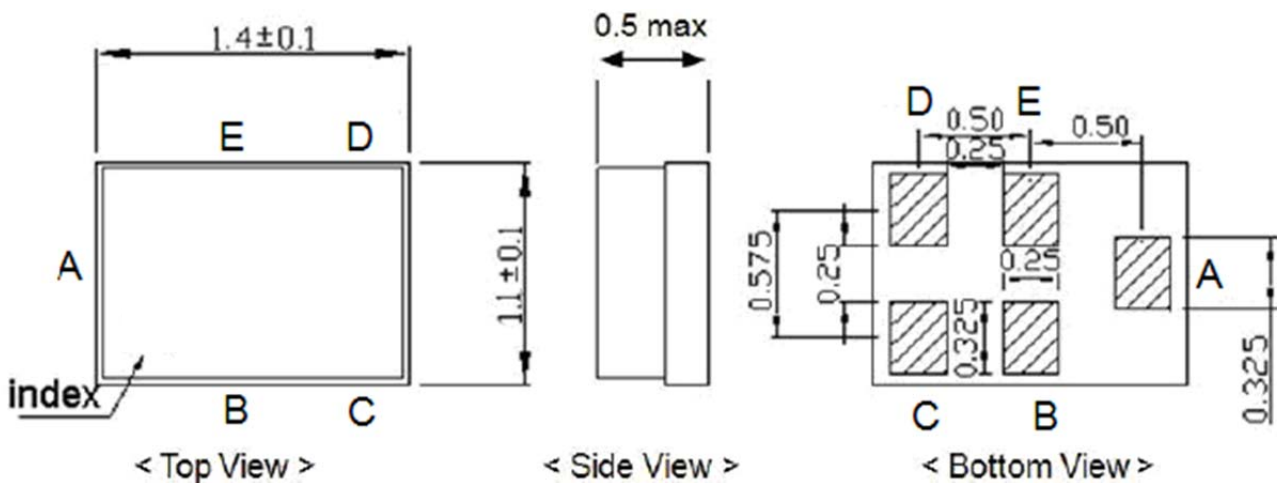
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E. PCB FOOTPRINT:



F. OUTLINE DRAWING:



Pin Configuration

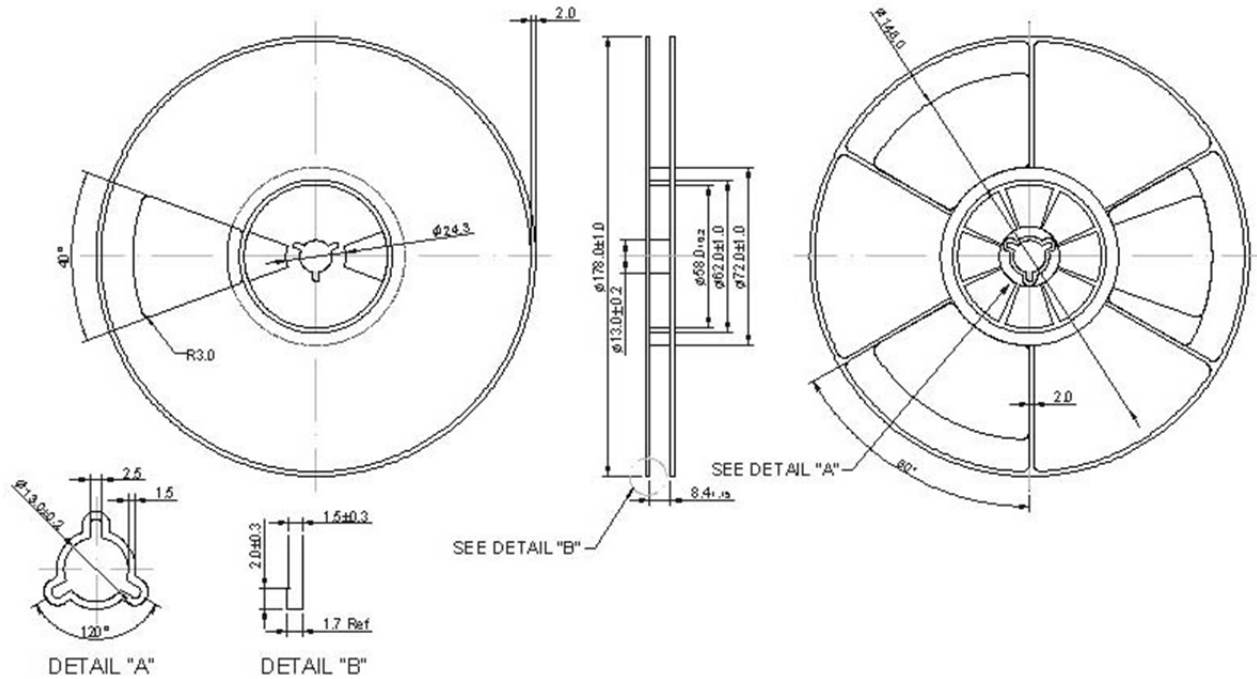
Pin No.	Symbol	Function
A	IN	Unbalanced pin
B	GND	Ground
C	GND	Ground
D	OUT	Unbalanced pin
E	GND	Ground

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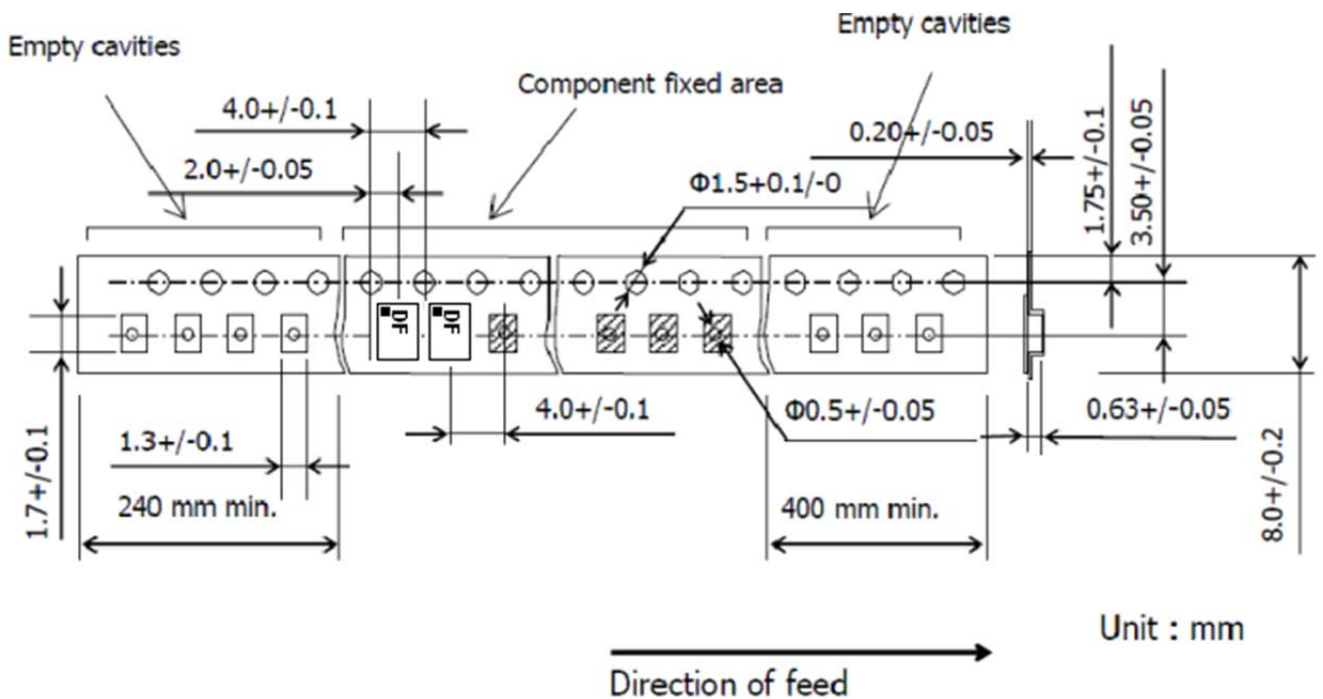
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

