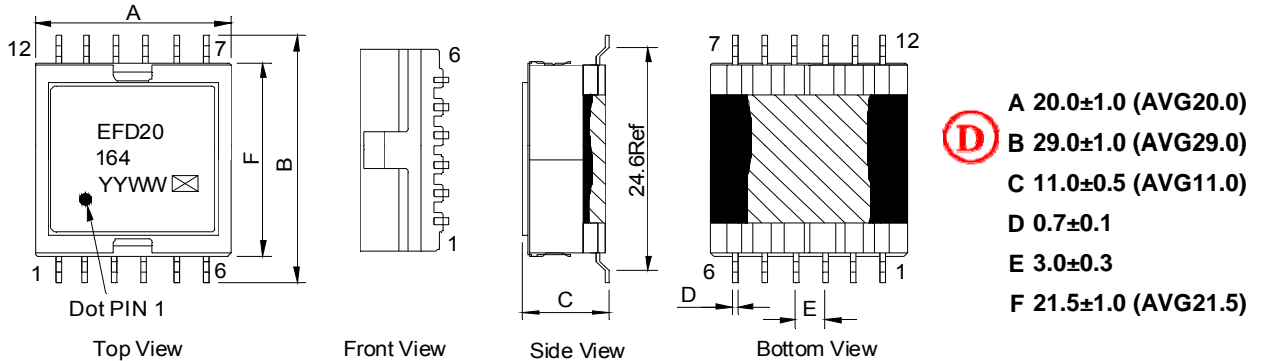


Product Specification

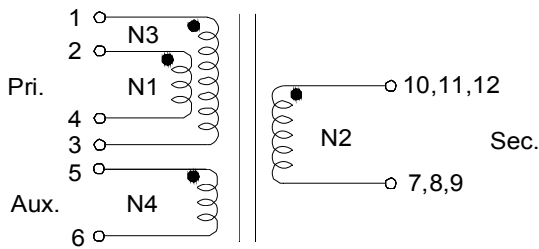
1.Physical Dimensions (Unit:mm)



Notes:

- *Marking type is laser printing
- *YY: Year Code; WW: Week Code
- * :When making samples, S is used to represent the product is a sample.
- * :Use different letters or numbers to represent the products are produced from different production lines .
- *Size B not including soldering tags
- *Coplanarity Requirement: Less than 0.10mm

2. Connection

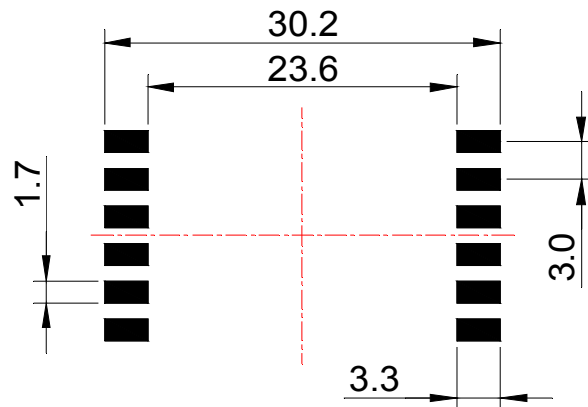


" • "Start of winding

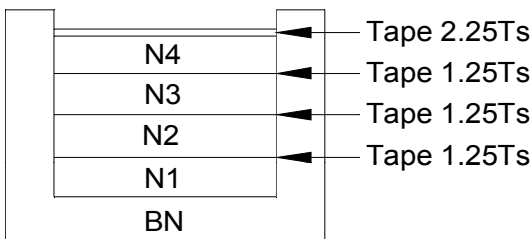
*Customer to tie terminals 1&2,3&4,7&8&9 and 10&11&12 on PC board.

*Application of the transformer allows for the leadwires between terminals 1&2,3&4, 7&8&9 and 10&11&12 to solder bridge.

3.Recommended Pad Layout (Unit:mm)



4.Structure of Products



5.No of Turns & Wire Spec

No	No of Pin	Turns	Wire Spec
N1	2--4	24 Ts	ø0.30 mm* 2P P180
N2	10,11,12--7,8,9	8 Ts	ø0.20 mm*15P P180
N3	1--3	24 Ts	ø0.30 mm* 2P P180
N4	5--6	8 Ts	ø0.15 mm* 6P P180

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Product Specification

6. Electrical Characteristics

*Operating temperature:-40°C to +125°C.

*Storage temperature range: -40°C to +125°C .

Items	Winding	Specifications	Test Conditions
Inductance	L(1,2-3,4)	42.0uH±10%	at 250kHz,0.7Vrms
Inductance	L(1,2-3,4)	L2.6A/L0A ≥80%	at 250kHz,0.7Vrms @2.6A
LK-Inductance	LK(1,2-3,4) Tie other	0.6uH MAX.	at 250kHz,0.7Vrms
DCR	R(1,2-3,4)	61mΩ MAX. C	at 25°C
	R(10,11,12-7,8,9)	15mΩ MAX.	
	R(6-5)	195mΩ MAX.	
Turns Ratio	(1,2-3,4):(10,11,12-7,8,9):(6-5)	3:1:1;±3%	at 250kHz,0.7Vrms
Hi-Pot	Pri.To Sec.	1500VAC	2mA.1Sec
	Win.To Core	500VAC	2mA.1Sec

7.Bill of Material

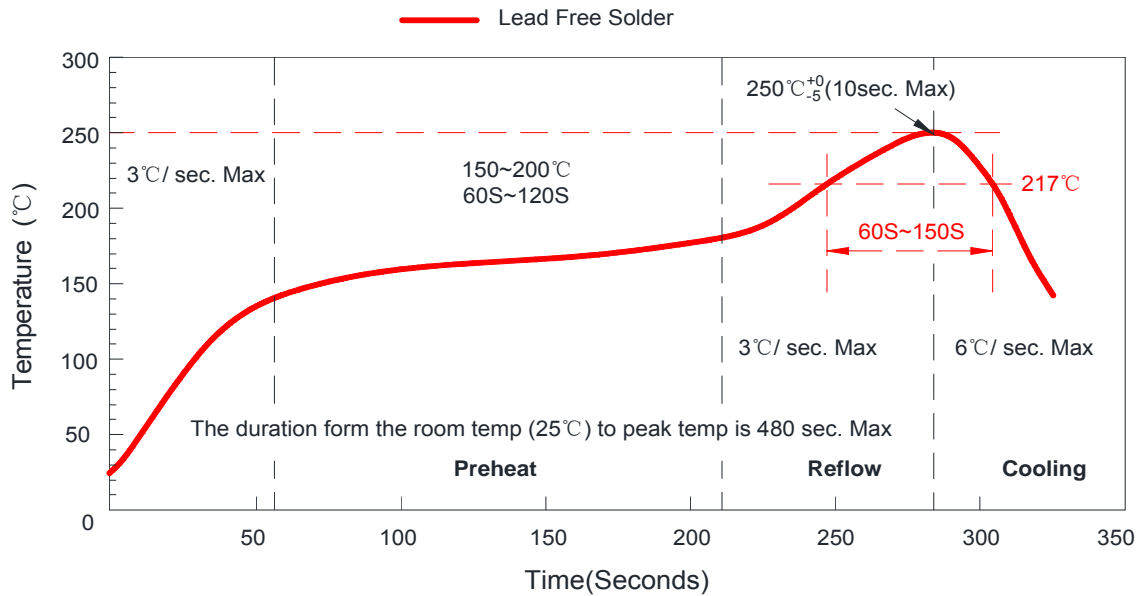
No	Items	Material Name	Manufacturer	UL File No	SGS File No
1	Core	FERRITE CORE JCP-95	FCRI or Equivalent	NIL	A2200234874101001R1
2	Bobbin	PM-9630	SUMITOMO (SumiDurez) or Equivalent	E41429	SHAEC2002442505
3	CLIP	SUS301	TONG FENG or Equivalent	NIL	SZXEC2001378801
4	Copper Wire	Polyurethane bare wire (Cu) Polysol 180	ELEKTRISOLA or Equivalent	E258243	CE/2020/34972
OR	Copper Wire	Polyurethane wire UEWH/U	PACIFIC or Equivalent	E201757	A220035992510301E
5	Polyimide Tape	Brown adhesive plastic HN NC 0.025mm V-0	RUNSEA (RAYITEK)or Equivalent	E339977	SZXEC2000536905
OR	Polyimide Tape	Polyimide Adhesive Tape PF-301	YAHUA or Equivalent	E165111	CANEC2008940301
6	EPOXY	EB-360	CHANGFENG or Equivalent	NIL	SHAEC2022446003
OR	EPOXY	H907-HF	HUA CHUANG or Equivalent	E304477	A2200309495101001
7	Varnish	ZS-NJ-D938XX	ZHAOSHUN or Equivalent	E329120	CANEC2003028910
8	Solder	Lead free solder	HONGTAIZHOU or Equivalent	NIL	SZXEC2001415205

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8.Recommended Temperature Conditions of Air Reflow Soldering

Test Solderability Temperature Profile



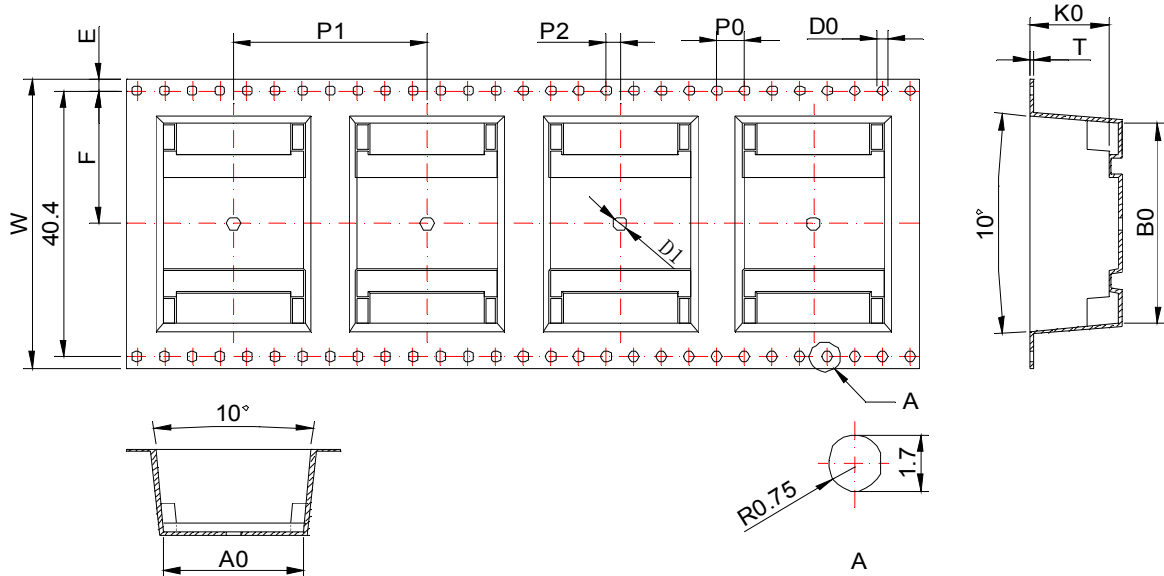
Profile Feature	
Average Ramp-Up Rate (T _{smax} to T _p)	3°C/Second Max.
Preheat	
-Temperature Min. (T _{smin})	150°C
-Temperature Max. (T _{smax})	200°C
-Time (T _{smin} to T _{smax})	60-120 Seconds
Time maintained above:	
-Temperature (T _L)	217°C
-Time (T _L)	60-150 Seconds
Peak/Classification Temperature (T _p)	250°C
Time within 5°C of actual PeakTemperature (T _p)	10 Seconds Max.
Ramp-Down Rate	6°C/Second Max.
Time 25°C to Peak Temperature	8 Minutes Max.

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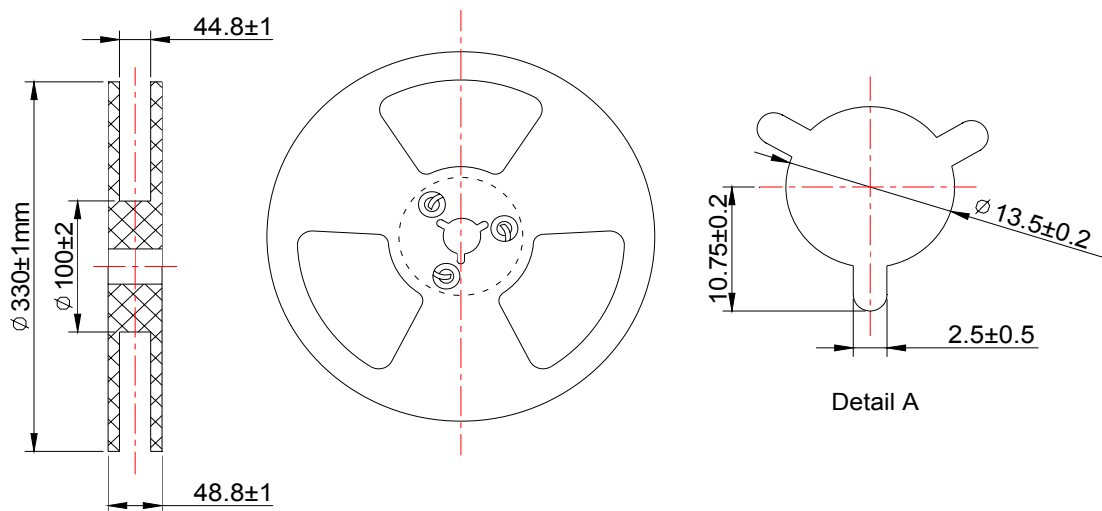
Product Specification

9. Tape and Reel Dimensions (Unit: mm)

*Packing information is according with EIA-841 standard, When W=32mm and other wider tapes that should have elongated sprocket holds on the other side.



ITEM	A0	B0	K0	P0	P1	P2
DIM	20.3±0.3	30.5±0.3	11.3±0.3	4.0±0.1	28.0±0.1	2.0±0.15
ITEM	W	T	E	F	D0	D1
DIM	44.0±0.3	0.5±0.05	1.75±0.1	20.2±0.15	∅1.5±0.1	∅2.0±0.1

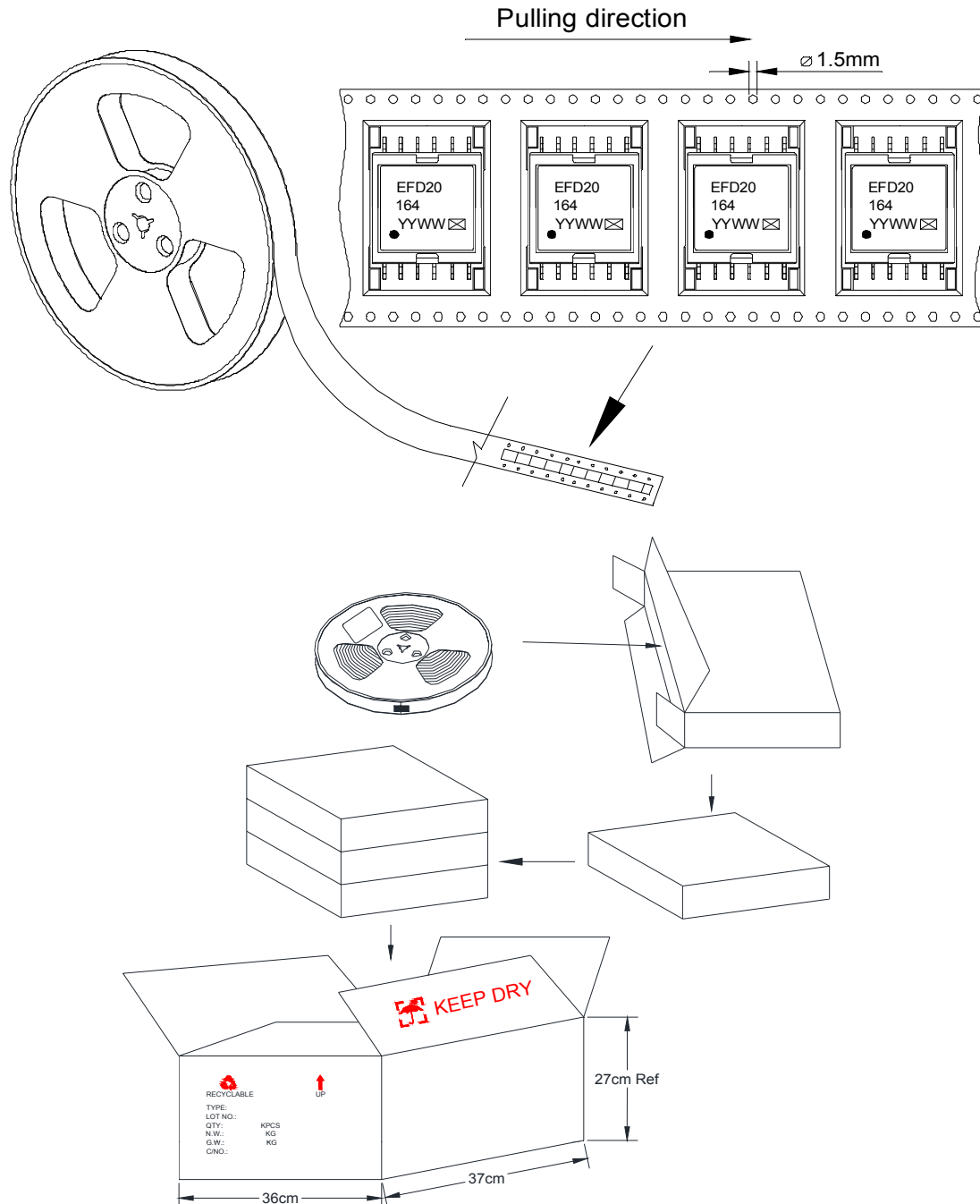


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10.Packing Request

- (1), Every roll of the carrier tape can contain 125pcs products.
- (2), Every small packing box contains one rolls of carrier tape. Total quantity: 125pcs.
- (3), Every carton box contains 3 small packing boxes. Total quantity: 375pcs.



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Test Report

Test Instruments									
HP4284A			DCR METER 131			HP4284A	CS2670A		
NO	Inductance	Inductance	LK-Inductance	DCR			Turns Ratio	Hi-Pot	
	at 250kHz,0.7Vrms	at 250kHz,0.7Vrms @2.6A	at 250kHz,0.7Vrms	at 25°C			at 250kHz,0.7Vrms	2mA.1Sec	
	L(1,2-3,4)	L(1,2-3,4)	LK(1,2-3,4) Tie other	R(1,2-3,4)	R(10,11,12- 7,8,9)	R(6-5)	(1,2- 3,4):(10,11,12- 7,8,9):(6-5)	Pri.To Sec.	Win.To Core
	42.0uH±10%	L2.6A/L0A≥80%	0.6uH MAX.	61mΩ MAX.	15mΩ MAX.	195mΩ MAX.	3:1:1;±3%	1500VAC	500VAC
1	42.10	41.60	0.39	53.30	11.20	58.50	Passed	Passed	Passed
2	42.30	41.80	0.37	53.40	11.40	56.80	Passed	Passed	Passed
3	42.40	42.00	0.33	53.30	11.30	58.70	Passed	Passed	Passed
4	42.50	42.20	0.33	53.40	11.50	57.80	Passed	Passed	Passed
5	42.30	41.90	0.35	53.30	11.40	56.90	Passed	Passed	Passed
MIN.	42.10	41.60	0.33	53.30	11.20	56.80			
MAX.	42.50	42.20	0.39	53.40	11.50	58.70			
AVG.	42.32	41.90	0.35	53.34	11.36	57.74			
Result	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed
Overall Dimensions Test						Measurement Tools: Caliper (Unit:mm)			
NO	A	B	C	D	E	F			
	20.0±1.0 (AVG20.0)	29.0±1.0 (AVG29.0)	11.0±0.5 (AVG11.0)	0.7±0.1	3.0±0.3	21.5±1.0 (AVG21.5)			
1	20.10	29.20	10.90	0.70	3.00	21.50			
2	20.10	29.10	11.00	0.70	3.00	21.50			
3	20.00	29.00	11.00	0.70	3.00	21.50			
4	20.00	29.00	11.00	0.70	3.00	21.50			
5	20.00	29.00	11.00	0.70	3.00	21.50			
MIN.	20.00	29.00	10.90	0.70	3.00	21.50			
MAX.	20.10	29.20	11.00	0.70	3.00	21.50			
AVG.	20.04	29.06	10.98	0.70	3.00	21.50			
Result	Passed	Passed	Passed	Passed	Passed	Passed			

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