	CUSTOMER	CUSTOMER CODE	PART DESCRIPTION SMD Reader coil I10 470 μ H \pm 5 % @ 125 kHz Pb free ROHS compliant.		
	INTERNAL CODE X-D0830-003	DATE 12/04/11	EDITION 8	DOCUMENT NAME E0830003_8	PAGE 1/7

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TECHNICAL SPECIFICATIONS

SMD READER Coil I10 470 μ H \pm 5% @ 125kHz

NOTES

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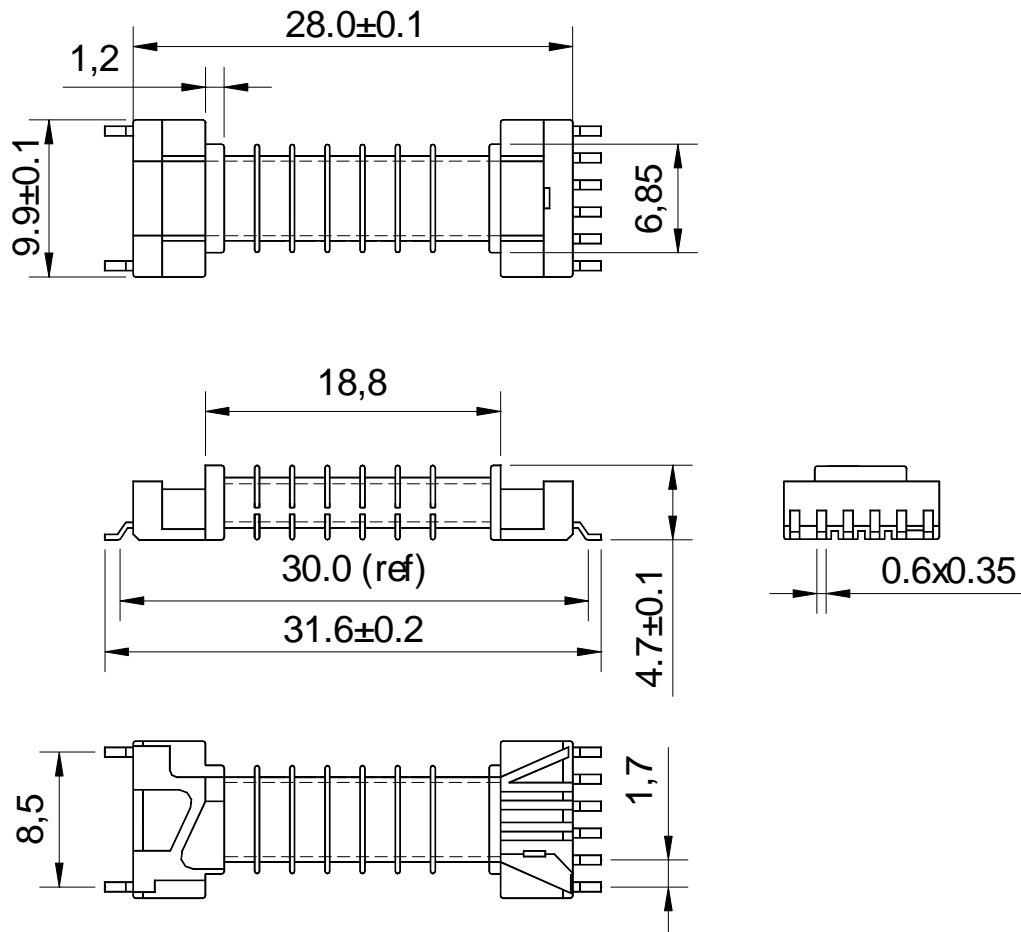


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1.- DIMENSIONS

1.1.-COILFOMER




1.2.-FERRITE

24.3mm x 4.5mm x 2.3 mm

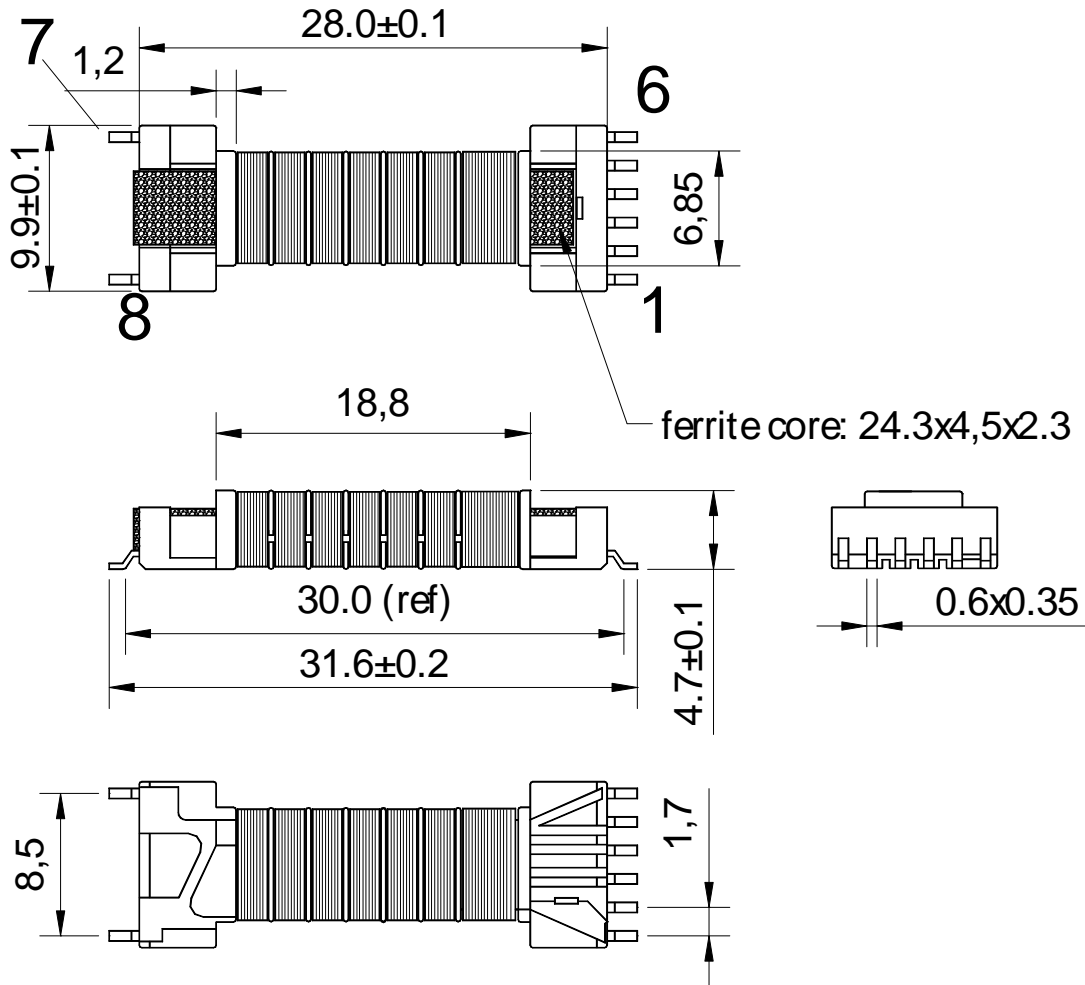
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	CUSTOMER	CUSTOMER CODE	PART DESCRIPTION		
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1.3.-FINAL DIMENSIONS



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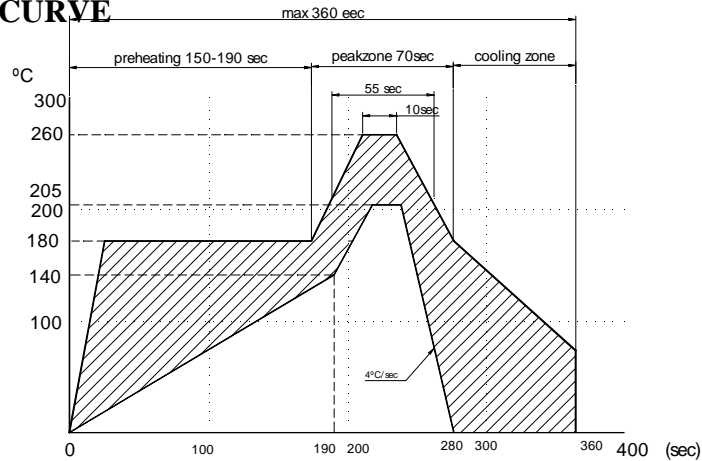


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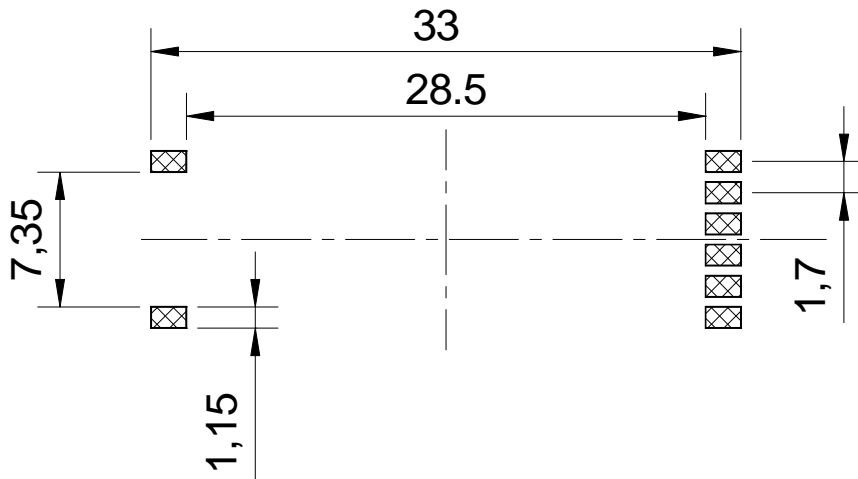
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2.- SOLDERING

2.1.-SOLDERING CURVE




2.2.- RECOMMENDED LAYOUT



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3.-MATERIALS

3.1.- FERRITE CORE MATERIAL

Initial permeability μ_i	2300 at 25°C,100KHz
Curie Temperature	$\geq 150^\circ\text{C}$

Table 1: Material properties

3.2.- SMD BASE

LCP E4008

3.3.- PIN MATERIAL

CuSn6 0.60 x 0.35mm, 2-3 μm Cu, 4-6 μm Sn100

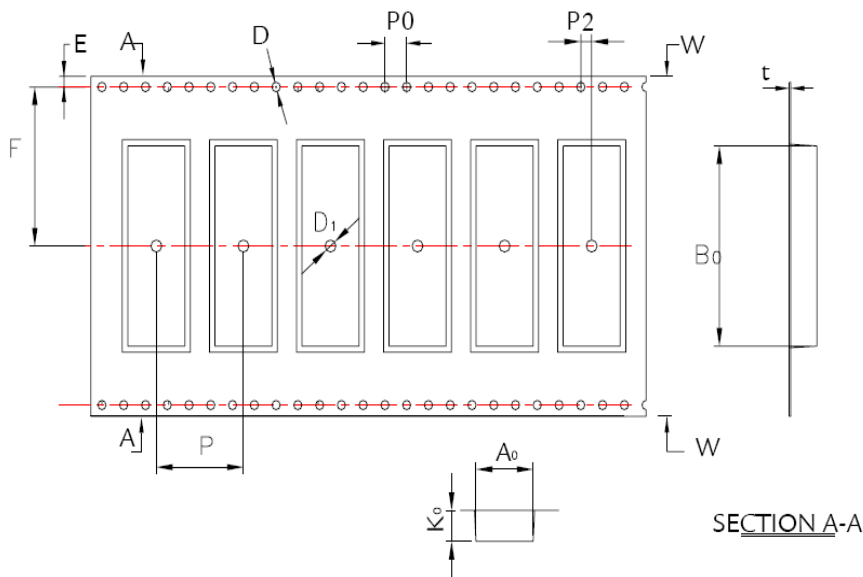
3.4.- WIRE

Wire with modified Polyurethane Polysol 180;

W1: 0.14 mm \varnothing FS Grade1 (connected between 1-6); norms IEC 317-20

4.PACKAGING

4.1.- TAPING SPECIFICATION (According to EIA481)




ITEM	W	A0	B0	K0	P	F	E	D	D1	P0	P2
DIM.	56 ^{+0.3} _{-0.1}	10.5 ^{+0.1} _{-0.1}	33 ^{+0.1} _{-0.1}	5.1 ^{+0.1} _{-0.1}	16 ^{+0.1} _{-0.1}	26.2 ^{+0.1} _{-0.1}	1.75 ^{+0.1} _{-0.1}	1.5 ^{+0.1} ₀	2 ^{+0.25} ₀	4 ^{+0.1} _{-0.1}	2.0 ^{+0.1} _{-0.1}

Notes: Packing length per 22" reel: 40.5 Meters.

NOTES

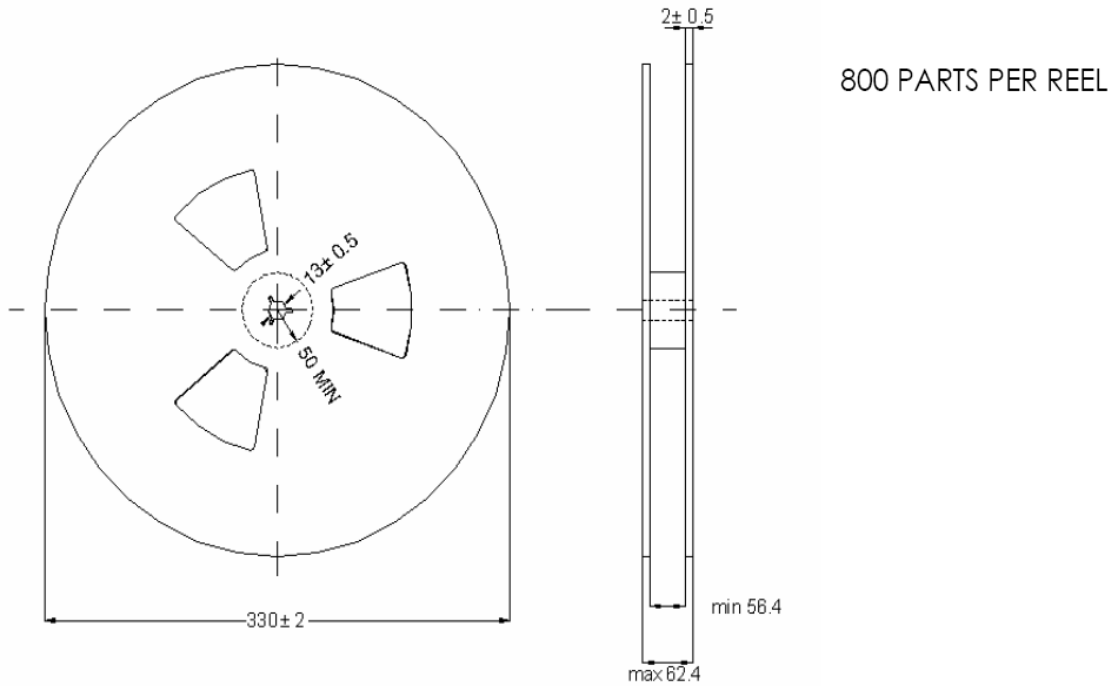
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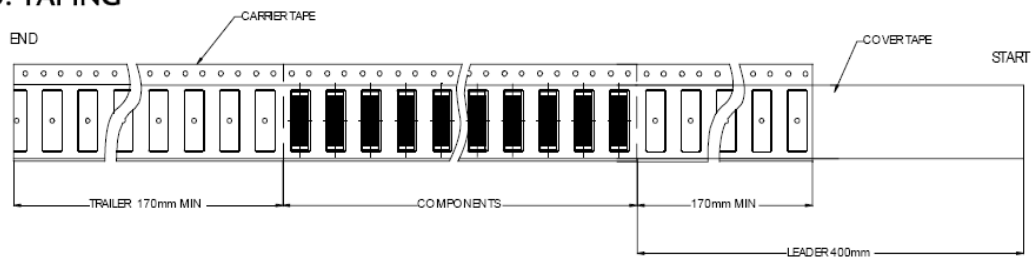
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4.2.- REEL



4.3. TAPING



5.- ELECTRICAL CHARACTERISTICS

Wire Φ_{Cu} (mm)	Number of turns in the winding	@125 kHz, 1 Vac, 25 °C	
0.14mm P180	147 _{typ}	L (μ H)	Q
Rdc (Ω)	SRF (MHz) @ 1Vac, 25 °C	470 μ H \pm 5%	85 \pm 10%
3.8 \pm 10%	> 3	I max=1 App	


Table 2: Electrical characteristics

Inductance, Q factor, Rdc and SRF measured with an LCR meter Wayne Kerr PMA 3260A.

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6.-EDITION CONTROL.

Edition	Date	Change description
1 st	03/05/05	First edition, preliminary
2 nd	03/06/05	First samples, three values
3 rd	10/08/05	First preseries
4 th	11/09/05	Series production
5 th	29/11/05	ROHS information added
6 th	24/07/06	Updated SRF frequency value
7 th	30/01/08	New format edition from E830003_6 and change Part Number X-D0830-003
8 th	12/04/11	New format edition for promotion

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