

SPECIFICATION FOR PRODUCT

PRODUCT: Power Transformer
PART NO.: AE-SEP13009
DESCRIPTION: SMD EP13 13.46*12.70*17.75

Approved: Owen HoChecked: Anter WangIssued: Anter Wang

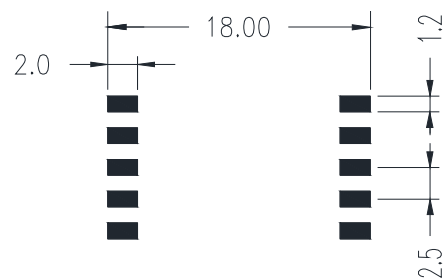
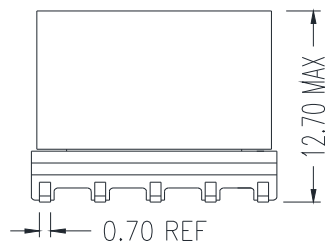
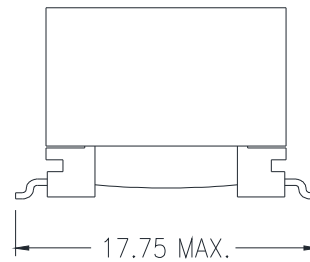
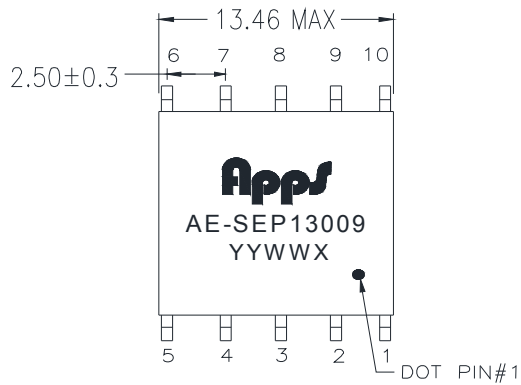
REVISION LIST

Revision	Data	Description	Page	Checked
A	2018/9/5	Initial	5	
NOTE:				

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SMD POWER TRANSFORMER

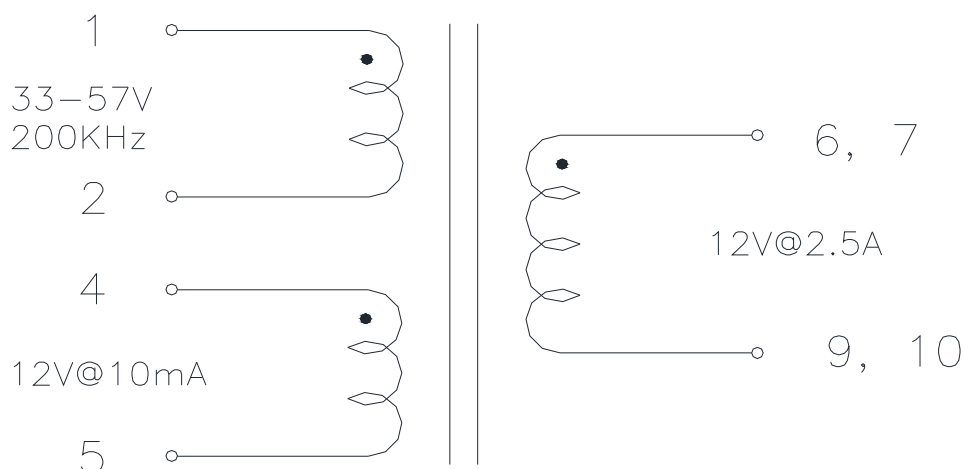
Mechanical Dimensions



SUGGESTED PCB LAYOUT

Unit: mm

Schematic



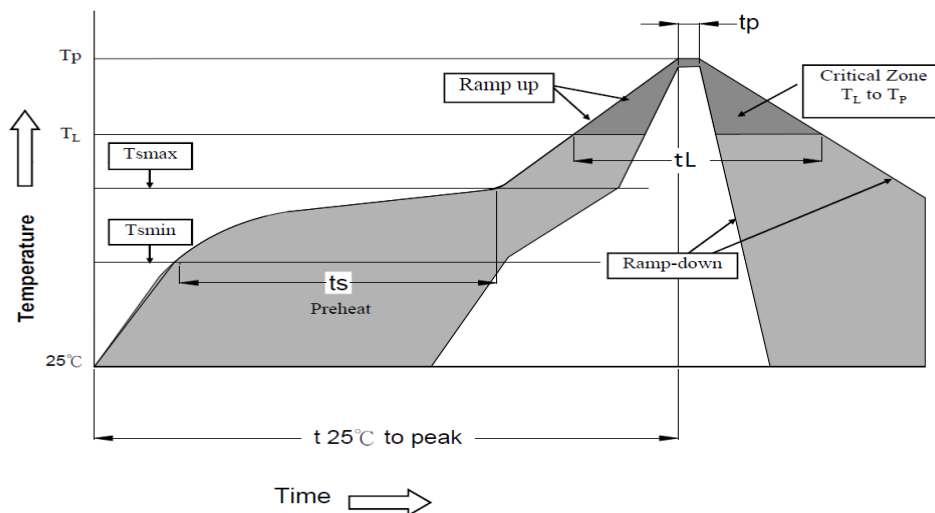
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SMD POWER TRANSFORMER

Electrical Characteristics @25°C

1. DCR :
PIN 1-2 = 110.0mΩ MAX.
PIN 6,7-9,10 = 40.0mΩ MAX.
PIN 4-5 = 561.0mΩ MAX.
2. INDUCTANCE (@100KHz, 0.2Vrms) :
PIN 1-2 = 100.50uH ±10%.
3. LEAKAGE INDUCTANCE (@100KHz, 0.2Vrms) :
PIN 1-2 (PIN 4-5, 6-7-9-10 SHORT) = 0.88uH MAX.
4. TURN RATIO (@100KHz, 1Vrms) :
PIN 6,7-9,10 : 4-5 = 1 : 0.92 ±5%.
PIN 6,7-9,10 : 1-2 = 1 : 1.77 ±5%.
5. HI-POT (@1500VAC, 1mA, 60S) : PIN 1, 2, 3, 4 TO 6, 7, 9, 10
6. RoHS COMPLIANT

IR Profile Recommended



$T_L = 217^\circ\text{C}$
 $T_P = 250^\circ\text{C}$
 $t_s = 60-180\text{s}$ $T_s \text{ max} = 200^\circ\text{C}$ $T_s \text{ min} = 150^\circ\text{C}$
 $t_L = 60-150\text{s}$ $t_P = 20-40\text{s}$ $T_{25^\circ\text{C to peak}} = 8\text{min max}$
 Ramp up rate = 3°C/s max
 Ramp down rate = 6°C/s max

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Material Detailed List

NO.	MATERIAL NAME	Type/Model	Technical Data	Manufacturer	UL NO.
1	BOBBIN	PM9820	V-0	SUMITOMO BAKELITE CO.,LTD	E59481
2	CORE	Mn-Zn	/	SUNSHINE ELECTRONIC TECHNOLOGY CO., LTD	NA
3	WIRE	Polyurethane wire	155℃	HUIZHOU SHING SHUN MAGNET WIRE CO., LTD	E255839
4	EPOXY	H-907	V-0	HUA CHUANG MATERIAL FTY	E304477
5	TAPE	#1350F-1	130℃	3M	E17385

Packaging

