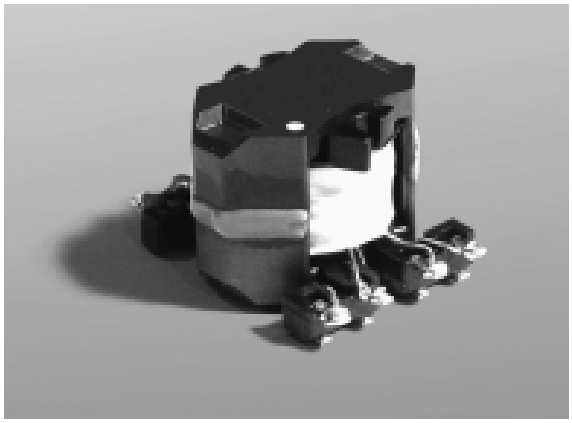
RM TYPE - RM6

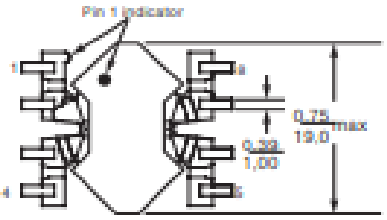
Flyback Transformer

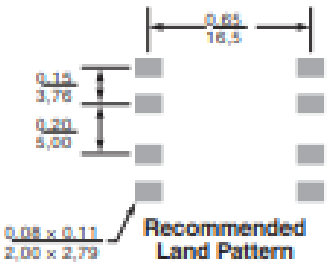


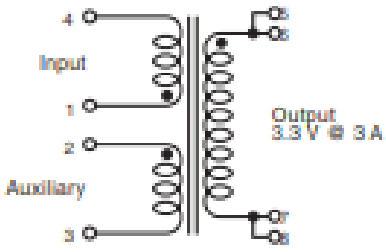
. This surface mount flyback transformer
. The core completely encloses the windings to minimize EMI interference.
. Very low DCR.
. 500 Vrms isolation
. The leakage inductance rating of just 1.0 µH.
YETcan also custom engineer a transformer to meet your specific requirements.
. Core material Ferrite
. RoHS compliant.
. Ambient temperature –40°C to +85°C
. Storage temperature Component: –40°C to +85°C.
Tape and reel packaging: –40°C to +80°C . Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

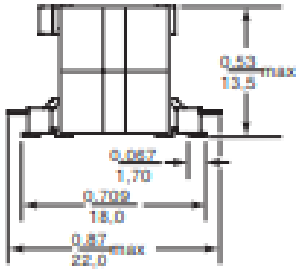
Part number	Inductance ±20% (µH) Pins 1 – 4	Pins 2 – 3	Input voltage (V)	Output	DCR max (Ohms)	Leakage Inductance max (µH)	Turns ratio in : out : aux	Isolation (Vrms)
YETRM6-20001B	100	100	18 – 55	3.3 V @ 3 A	0.150 (1 – 4) 0.150 (2 – 3) 0.012 (5,6 – 7,8)	1.0	1 : 0.33 : 1	500

1. When ordering, please specify a packaging code: YETRM6-20001B
Packaging: D = 13″ machine ready reel. EIA-481 embossed plastic tape (150 per full reel).
B = In bulk or Less than full reel, in tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.
2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc.
3. Leakage inductance measured at 100 kHz, 0.1 Vrms from pins 1 to 4 with all other pins shorted.
4. Isolation measured from pin 1 to pins 5 and 6; from 2 to 5 and 6; and from pins 1, 2, 5 and 6 to the core for one minute.
5. Electrical specifications at 25°C.







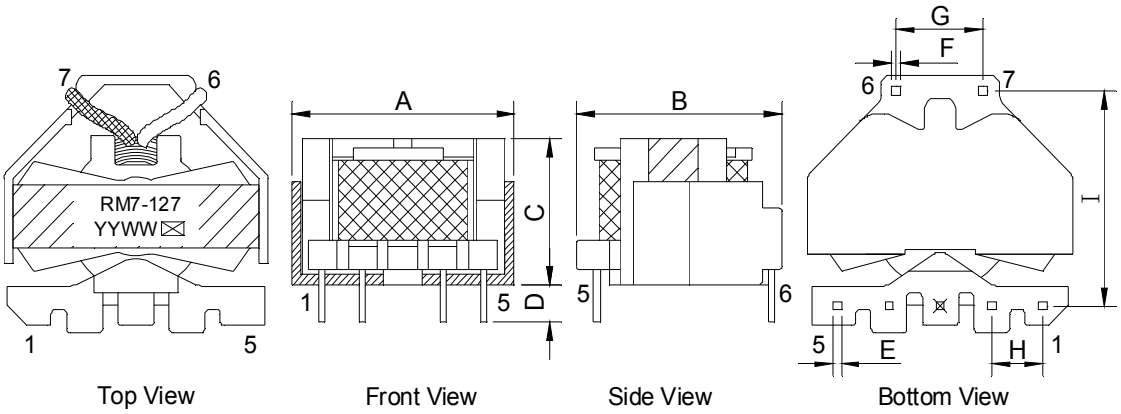


Dimensions are in inches / mm

RM TYPE - RM7

Product Specification

1.Physical Dimensions (Unit:mm)



A 24.0MAX.
B 22.0MAX.
C 15.5MAX.
D 3.5±0.5
E □0.6±0.1
F □0.8±0.2
G 7.5±0.3
H 4.0±0.3
I 17.6±0.5

Notes:

*Marking type is laser printing or label

*YY: Year Code; WW: Week Code

* ☒ :When making samples, S is used to represent the product is a sample.

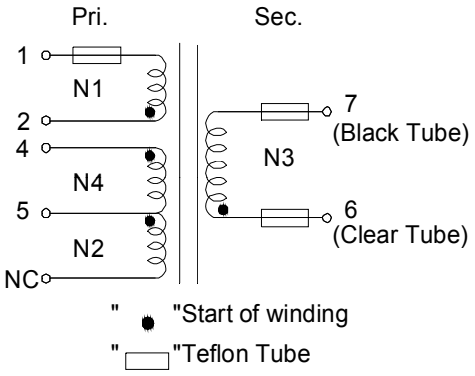
* ☒ :Use different letters or numbers to represent the products are produced from different production lines .

*Size D not including soldering tags

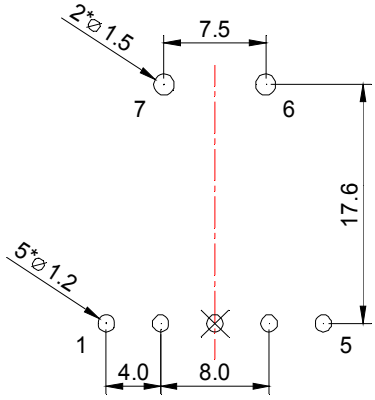
*Removed the Pin 3 in the bobbin.

*The center pillar of the cores need to be fixed by epoxy, the product and the shell need to be fixed by epoxy.

2. Connection



3.Recommended Pad Layout (Unit:mm)

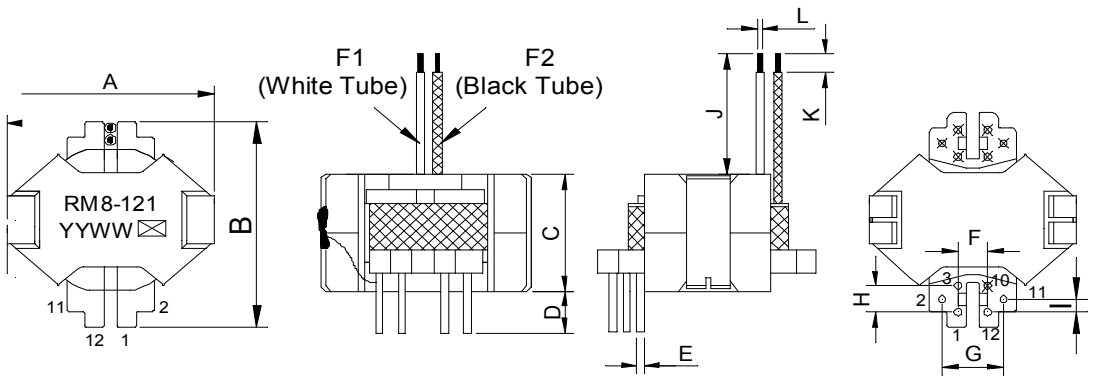


Items	Winding	Specifications	Test Conditions
Inductance	L(2-1)	850uH±7%	at 10kHz,1Vrms
LK-Inductance	LK(2-1) Tie other	80uHMAX.	at 10kHz,1Vrms
DCR	R(2-1)	0.7ΩMAX.	at 25℃
	R(4-5)	148mΩMAX.	
	R(6-7)	71mΩMAX.	
Turn raito	(2-1):(6-7):(4-5)	72:9:10;±3%	at 100kHz,1Vrms
Insulation Resistance	PRI. TO SEC.	100MΩ MIN.	500VDC
	SEC. TO Core	100MΩ MIN.	500VDC
Hi-Pot	PRI. TO SEC.	3000VAC	10mA.60Sec (Applied to laboratories)
	PRI. TO SEC.	4000VAC	5mA.3Sec (Applied to production)
	SEC. TO Core	4000VAC	5mA.3Sec
	PRI. TO PRI.	1000VAC	5mA.3Sec

RM TYPE - RM8

Product Specification

1.Physical Dimensions (Unit:mm)



Top View　　Front View　　Side View　　Bottom View

A	26.5MAX.
B	26.5MAX.
C	12.5MAX.
D	3.0±0.5
E	0.6±0.1
F	3.6±0.3
G	7.2±0.5
H	3.6±0.3
I	1.8±0.3
J	25.0±3.0
K	5.0±2.0
L	1.5MAX.

Notes:

(1).Marking type is laser printing

(2).YY: Year Code; WW: Week Code

(3). ☒ :When making samples, S is used to represent the product is a sample.

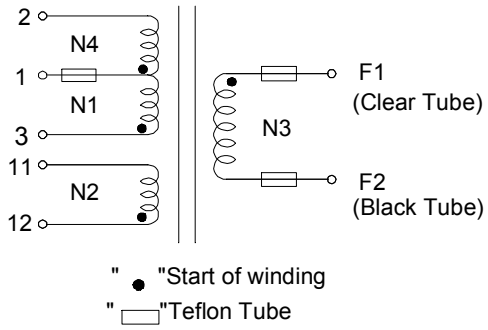
(4). ☒ :Use different letters or numbers to represent the products are produced from different production lines .

(5). Pin 4,5,6,7,8,9,10 cut off.

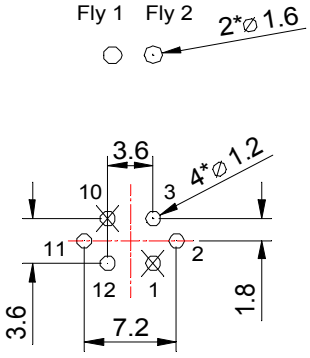
(6).For Pin1, the remaining part of the pin after winding should be cut off.

(7).Size D not including soldering tags

2. Connection



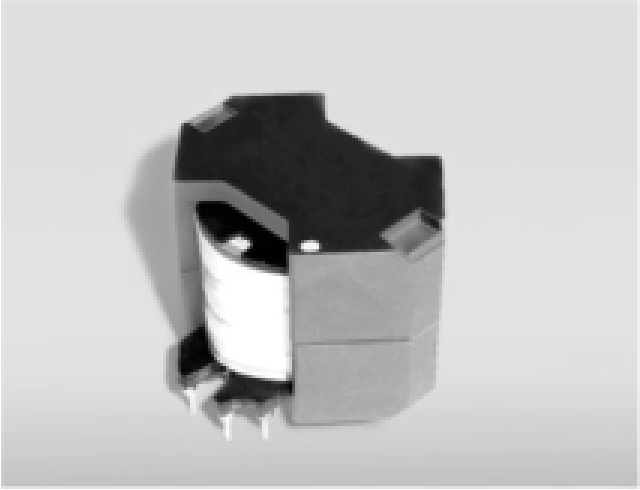
3.Recommended Pad Layout (Unit:mm)



Electrical Characteristics

Items	Winding	Specifications	Test Conditions
Inductance	L(3-2)	905uH±10%	at 100kHz,0.1Vrms
LK-Inductance	LK(3-2) Tie other	30uHMAX.	at 100kHz,0.1Vrms
DCR	R(3-2)	875mΩ MAX.	at 25℃
	R(12-11)	50mΩ MAX.	
	R(F1-F2)	20mΩ MAX.	
Turns Ratio	(3-2):(12-11):(F1-F2)	47:8:4;±3%	at 100kHz,0.1Vr
Hi-Pot	Pri. To Sec.	3000VAC	2mA.60SEC.
	Win. To Core	1500VAC	2mA.60SEC.

Flyback Transformers



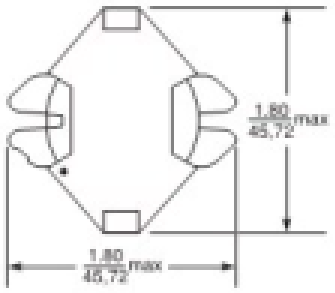
- Input voltage: 22 Vdc – 55 Vdc
- Hipot 3000 Vrms/1minute between primary to secondary

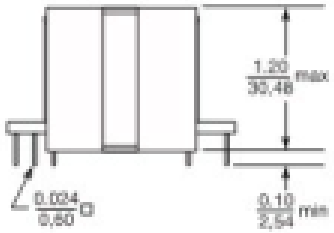
- **Core material** Ferrite
- RoHS compliant

- **Ambient temperature** –40°C to +85°C
- **Storage temperature** Component: –40°C to +85°C.
  Tray packaging: –40°C to +80°C
- **Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

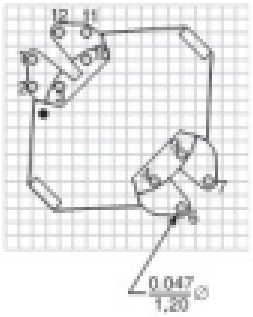
Part number	Inductance at 0 A 10% (µH)	DCR max (Ohms) pri	DCR max (Ohms) sec	SRF typ (kHz)	Leakage inductance max (µH)	Turns ratio pri : sec	Isat (A)	Output
YETRM14-20001B	28	0.008	0.106	640	0.138	1:6	10.5	110 Vac
YETRM14-20002B	28	0.008	0.472	360	0.115	1:12	10.5	220 Vac

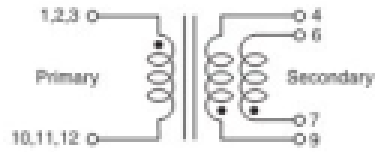
1. Inductance is measured at 150 kHz, 0.1 Vrms.
2. DCR is with the secondary windings connected in parallel.
3. Leakage inductance is for the three windings of the primary with the secondary windings shorted.
4. Turns ratios are with the primary and secondary windings connected in parallel.
5. DC current at which the inductance drops 10% (typical) from its value without current.
6. Electrical specifications at 25°C.





Recommended PC board layout
(0.10 inch / 2,54 mm grid)





Pins 1, 2 and 3 to be connected together on the PC board.
Pins 10, 11 and 12 to be connected together on the PC board.
Secondary windings to be connected in parallel on the PC board