

SPECIFICATION FOR APPROVAL

CUSTOMER:	
PART DESCRIPTION:	EF15 Transformer
CUSTOMER P/N:	
P/N:	
REVISION:	A
DATE:	Sep. 22. 2021

Remark:

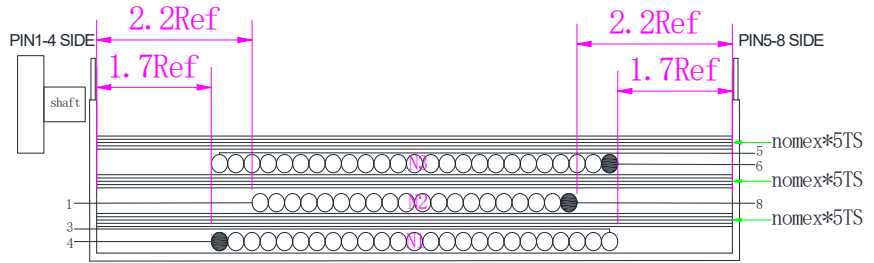
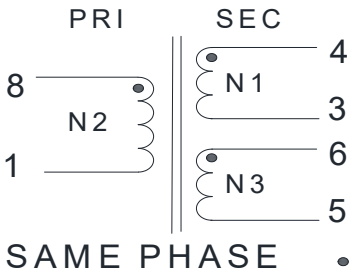
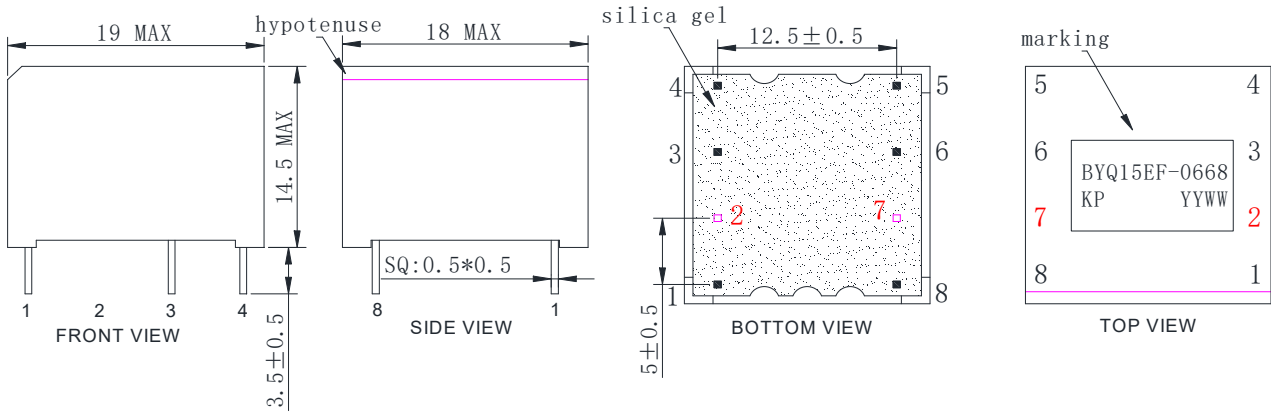
- 1. All materials must be UL recognized, flame class UL94 V-0.**
- 2. All materials must be RoHS and Reach compliant.**

CUSTOMER APPROVAL	DATE

REVISION LIST

Rev	Revision Date	Revision Description	Revised By
A	Sep.22.2021	Initial Release	ABLE

1. MECHANICAL DIMENSIONS (UNIT: MM) & SCHEMATIC;



NOTES:

1. PIN2,7 empty, the pin1-4 toward the shaft core, all clockwise winding
2. All lead wires are first hung from side fulcrum to PIN.
3. Leave a distance between both ends of all windings, as shown in the structure drawing
4. Iron core without air gap, fixed by 3TS adhesive tape
5. No varnish.
6. The bobbin is loaded into the shell, filled with silica gel
7. Mark at the top.

2. WINDING SPECIFICATION & WINDING DIRECTION;

NO	S	F	WIRE	TURNS	TUBE(S/F)	TAPE - NOMEX	LAYERS
N1	4	3	1UEW-F φ0.20mm*1P	25TS	--/--	5Ts	1 Close+Center
N2	8	1	1UEW-F φ0.20mm*1P	20Ts	--/--	5Ts	1 Close+Center
N3	6	5	1UEW-F φ0.20mm*1P	25Ts	--/--	5Ts	1 Close+Center

3. ELECTRICAL REQUIREMENTS & TEST CONDITIONAL;

TEST CONDITION: TEMPERATURE AT 25°C, HUMIDITY AT 65±5% RH

NO	PARAMETER	TERMINAL	SPECIFICATION	TEST INSTRUMENTS
1	INDUCTANCE	8-1	300uH MIN	100KHz,0.1V Agilent E4980A OR EQUAL
2	LEAKAGE INDUCTANCE	8-1	3uH MAX	100KHz,0.1V(Shorted Other pins) Agilent E4980A OR EQUAL
3	TURNS RATIO	4-3	25±0.3	PIN8-1=20TS @20KHz, 1V CHROMA 3250 OR EQUAL
		6-5	25±0.3	
4	DC RESISTANCE	8-1	500mΩ MAX	CHROMA 16502 OR EQUAL
		4-3	600mΩ MAX	
		6-5	600mΩ MAX	
5	DISTRIBUTED CAPACITANCE	PIN8-PIN4	≤20PF	100KHz,0.1V SERIES TEST Agilent E4980A OR EQUAL
		PIN8-PIN6	≤20PF	
6	HI-POT	PIN1,8-PIN3,4,5,6	AC 2500V/3mA /60sec	50HzCHROMA 19053 OR EQUAL
		PIN3,4-PIN5,6	AC 2500V/3mA /60sec	
7	INSULATION TESTS	AC or DC voltage test is carried out according to IEC 61800-5-1:2016, 5.2.3.2 Impulse voltage test is carried according to IEC 61800-5-1:2016, 5.2.3.1 Partial discharge test is carried out according to IEC 61800-5-1:2016, 5.2.3.3 reinforced insulation test is carried out according to IEC60664-1		

4. MATERIALS/ COMPONENTS LIST;

No.	ITEM	MANUFACTURER	SIZE	MATERIAL	UL FILE No.
1	BOBBIN	BASF ALTIENGESELLSCHAFT	EF14 H 4+4PIN	A3X2G7	E41871(M)
2	CASE	BASF ALTIENGESELLSCHAFT	EF14	A3X2G7	E41871(M)
3	CORE	SUNSHINE ELECTRONIC TECHNOLOGY CO., LTD EQ HAINING ZHONGXIN ELECTRONICS CO., LTD EQ KONLE ELECTRONICS(HK) CO., LIMITED EQ	EF14	SSP-95 ZP95 MK95	N/A
4	WIRE	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD EQ DONG GUAN YIDA INDUSTRIAL CO., LTD EQ SHENZHEN DAYANG INDUSTRY CO., LTD EQ	∅0.20mm	UEWN/U xUEW/155, xUEW-NY/155	E201757 E344055 E176101
5	TAPE	3M COMPANY ELECTRONIC MARKETS DIV(EMD) EQ JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD EQ	4mm	1318-1 CT/PZ	E17385 E165111
6	NOMEX	DUPONT SPECIALTY PRODUCTS USA, LLC EQ	9mm	410	E34739
7	GLUE	DOW SILICONES CORP EQ		CN-8760	E40195