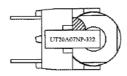


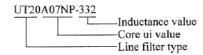
COMMON MODE LINE FILTERS

SPECIFICATIONS 1. DIMENSION (UNIT: mm) ADHESIVE TYPE UT20

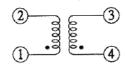
- * THE LENGTH OF THE TERMINAL PINS DOES NOT INCLUDE SOLDER TIP.
- * PIN PITCH TO BE MEASURED FROM THE ROOT OF TERMINAL.

2. STAMP DESCRIPTION (e.g)



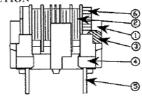


3. CONNECTION (BOTTOM VIEW)



" • " indicates winding start.

4. CONSTRUCTION



MATERIAL LIST

No.	PARTS	MATERIAL	
0	CORE	FERRITE CORE TL07	
		A07	
		CS72	
2	WIRE	POLYURETHANE ENAMELLED COPPER WIRE CLASS 130 OR EQUIVALENT.	
3	ADHESIVE	EPOXY RESIN (XNR3614)	
4	BASE	PHENOLIC (T375J)	
5	LEAD PIN	CP WIRE(TIN PLATED)	
6	BOBBIN	POLYBUTYLENE TEREPHTHALATE PBT (QMFZ2 1403G6)	
7	SOLDER	Sn/Cu, 99.3/0.7	
8	FLUX	# 6229 OR ALPHA 100 (R)	
9	INK	STM-3	

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-1-



COMMON MODE LINE FILTERS

TYPE UT20

5. ELECTRICAL CHARACTERISTICS

No.	CEC P/ N	STAMP	INDUCTANCE (m H) (1-2)/(4-3) Min.	LEAKAGE INDUCTANCE (μΗ)(3-4 short) (1-2) Max.	D.C.R. (Ω) (1-2)/(4-3) Max.	RATED CURRENT (A) (2-3 short) (1-4) Max.
01	UT20A07NP-102	UT20A07NP-102	1.0	30	115m	1.85
02	UT20A07NP-182	UT20A07NP-182	1.8	50	160m	1.50
03	UT20A07NP-332	UT20A07NP-332	3.3	90	270m	1.25
04	UT20A07NP-472	UT20A07NP-472	4.7	120	0.41	0.90
05	UT20A07NP-682	UT20A07NP-682	6.8	180	0.60	0.75
06	UT20A07NP-103	UT20A07NP-103	10.0	250	0.90	0.60
07	UT20A07NP-183	UT20A07NP-183	18.0	450	1.45	0.45
08	UT20A07NP-333	UT20A07NP-333	33.0	750	2.30	0.40
09	UT20A07NP-473	UT20A07NP-473	47.0	1100	3.80	0.25
10	UT20A07NP-683	UT20A07NP-683	68.0	1700	5.80	0.20

* TESTING INSTRUMENT

INDUCTANCE: HP 4284A OR EQUIVALENT.

D.C.R: KEITHLEY 580 MICRO OHM METER OR EQUIVALENT.

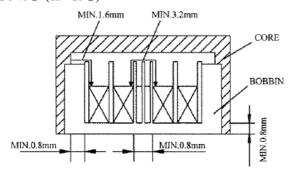
LEAKAGE INDUCTANCE: HP 4284A OR EQUIVALENT.

RATED CURRENT: HP E3632A , HP 34401A OR EQUIVALENT. HI-POT: COIL TO COIL : AC 2.0kVrms 50/60Hz 2mA 1MINUTE

COILS TO CORE: AC 2.0kVrms 50/60Hz 2mA 1MINUTE

- * TESTING FREQUENCY OF INDUCTANCE: at 1kHz/0.1V
- * RATED CURRENT: THE CURRENT WHEN THE TEMPERATURE OF COIL IS INCREASED

BY 40°C (Ta = 25°C)



- * SPACE, CREEPAGE DISTANCE BETWEEN COIL AND COIL:MIN. 3.2mm.
- * SPACE, CREEPAGE DISTANCE BETWEEN COIL AND CORE:MIN. 1.6mm.

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COMMON MODE LINE FILTERS

TYPE		
	UT20	

6. GENERAL CHARACTERISTICS

* STANDARD TESTING CONDITIONS:

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15° C TO 35° C. RELATIVE HUMIDITY: 25% TO 85%. AIR PRESSURE: 86kPa TO 106kPa.

IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING LIMITS: AMBIENT TEMPERATURE: $20\%\pm1\%$. RELATIVE HUMIDITY: 63% TO 67%. AIR PRESSURE: 86kPa TO 106kPa.

No.	ITEMS	TEST CONDITIONS	SPECIFICATION	
1	DIELECTRIC	COIL TO COIL ; AC 2.0kVrms 50/60Hz 2mA 1MINUTE	NO FAILURE	
	WITHSTANDING VOLTAGE	COILS TO CORE : AC 2.0kVrms 50/60Hz 2mA 1MINUTE		
2 INSULATION RESISTANCE		COIL TO COIL : DC 500V	MIN. 100 M Ω	
		COILS TO CORE : DC 500V		
3	OPERATING TEMPERATURE		-25 ~ +85℃	
			(INCLUDING COIL TEMPERATURE RISE)	
	STORAGE TEMPERATURE		-40 ~ +85°C	
4	TERMINAL STRENGTH	APPLIED A STATIC PULLING FORCE OF 5N IN A	NO TERMINAL DISCONNECTION	
		DIRECTION PARALLEL TO THE LEAD	OR LOOSENING	
		TERMINALS FOR 60±5 SECONDS.		
5	RESISTANCE TO	FIX THE SAMPLES ON A 1.6mm THICKNESS PCB,	NO MECHANICAL BREAKAGE.	
	SOLDERING HEAT TEST	THEN DIP THE SAMPLE LEADS UP TO THE PCB	DEVIATION RELATIVE TO	
		INTO A SOLDERING BATH OF 260±5℃ FOR 5±1	INITIAL VALUE:	
		SECONDS.	L: WITHIN ±10%	
6	SOLDERABILITY TEST	IMMERSE THE TERMINAL IN FLUX FOR 5	OVER 90% OF THE SURFACE	
		SECONDS. THEN DIP THE TERMINAL INTO A	BEING IMMERSED SHALL BE	
		SOLDERING BATH OF 235±5℃ FOR 2±0.5	COVERED WITH NEW SOLDER	
		SECONDS.	UNIFORMLY.	
7	VIBRATION TEST	AMPLITUDE:1.5mm P-P		
		FREQUENCY:10~55~10Hz (1 MINUTE PER CYCLE)		
		DURATION:2 HOURS IN EACH OF X,Y,Z AXIS	DEVIATION RELATIVE TO	
		(TOTAL 6 HOURS)	INITIAL VALUE:	
8	SHOCK TEST	PEAK ACCELERATION: 981m/s ²	L: WITHIN ±10%	
		DURATION OF PULSE:10ms		
		SHOCK TIMES: 3 TIMES IN EACH OF X, Y, Z		
		AXIS.(TOTAL 9 TIMES)		
9	HUMIDITY TEST	TEMPERATURE: 40°C±2°C	DEVIATION RELATIVE TO	
		HUMIDITY: 90%~95%RH	INITIAL VALUE:	
		DURATION:96±4 HOURS.	L: WITHIN ±10%	

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