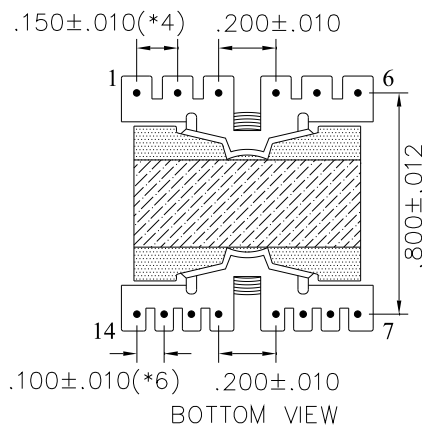
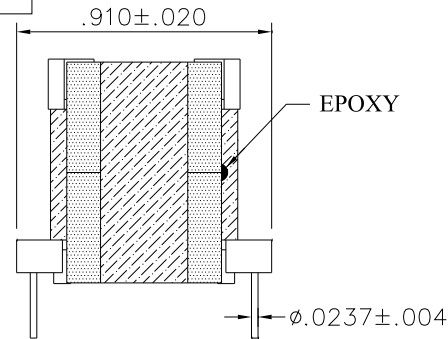
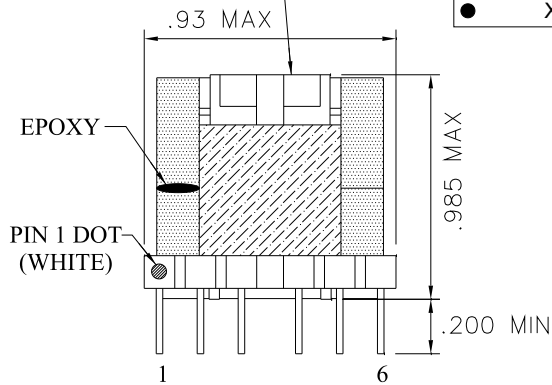


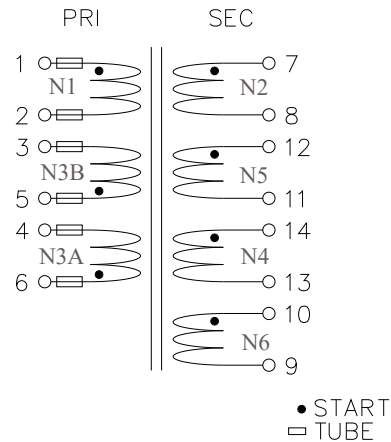
1. DIMENSION:
UNIT: inch

MARKING:

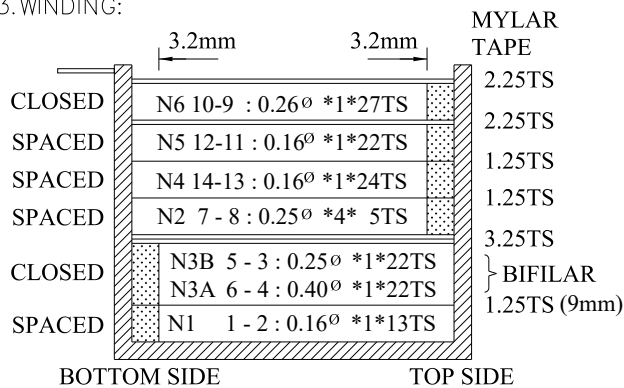
ALLIED
CS4544-RC
802-868-73 B2
XXXX



2. SCHEMATIC:

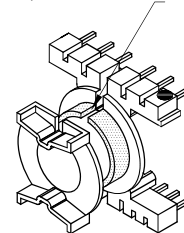


3. WINDING:



NOTE:

1. PIN 1 DOT
2. CORE FIX TAPE 2TS
3. CORE PIN 1 SIDE & PIN 7 SIDE
ADD WITH EPOXY.
4. CUTOUT IN MARGIN TAPE FOR SLEEVED
N1, N3A, N3B LEADS ON PIN 1~6 SIDE



Rev.	Date	Description	By
	3-5-2018	Revised marking, Re-routed leads through margin tape, Increase wire size for pins 10-9 to 0.26mm and change the Epoxy to 130°C.	RER
Part Number: CS4544-RC		19671 Descartes	Date: January 10, 2018
Description: PQ2020 Core, Custom Transformer RoHS Compliant		Foothill Ranch, CA 92610 Ph: (949) 356-1780 www.alliedcomponents.com	Page: 1 of 5



4. ELECTRICAL SPECIFICATIONS: @25°C TEST

4-1. INDUCTANCE: 30KHz/0.1V (MICROTEST-6377)

1-2 : 42.3 μ H $\pm$ 10% 10-9 : 182 μ H $\pm$ 10%
 6-4 : 121 μ H $\pm$ 10% 12-11 : 121 μ H $\pm$ 10%
 5-3 : 121 μ H $\pm$ 10% 14-13 : 144 μ H $\pm$ 10%
 7-8 : 6.25 μ H $\pm$ 10%

4-2. DCR: CH-502A @25°C

1-2 : 0.507 Ω MAX 10-9 : 0.492 Ω MAX
 6-4 : 0.140 Ω MAX 12-11 : 1.000 Ω MAX
 5-3 : 0.350 Ω MAX 14-13 : 1.110 Ω MAX
 7-8 : 0.026 Ω MAX

4-3. TURNS RATIO: @20KHz/1V

6-4 : 5-3 = 22 : 22 $\pm$ 3% 6-4 : 14-13 = 22 : 24 $\pm$ 3%
 6-4 : 1-2 = 22 : 13 $\pm$ 3% 6-4 : 12-11 = 22 : 22 $\pm$ 3%
 6-4 : 7-8 = 22 : 5 $\pm$ 3% 6-4 : 10-9 = 22 : 27 $\pm$ 3%

4-4. HI-POT TEST : (100% TEST FOR HI-POT)

PIN 1,5,6 TO PIN 7,10,12,14 : AC 2300V 3mA FOR 1 MINUTE.
 (OR AC 2760V 3mA FOR 1 SECOND)

PIN 1 TO PIN 5,6 : AC 600V 3mA FOR 1 MINUTE.
 (OR AC 720V 3mA FOR 1 SECOND)

PIN 7 TO PIN 10,12,14 : AC 600V 3mA FOR 1 MINUTE.
 (OR AC 720V 3mA FOR 1 SECOND)

PIN 14 TO PIN 10,12 : AC 600V 3mA FOR 1 MINUTE.
 (OR AC 720V 3mA FOR 1 SECOND)

PIN 12 TO PIN 10 : AC 600V 3mA FOR 1 MINUTE.
 (OR AC 720V 3mA FOR 1 SECOND)

4-5. GAP : CORE NO GAP.

4-6. OPERATION TEMP RANGE : -20°C ~ +80°C including temp rise.

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Description: PQ2020 Core, Custom Transformer RoHS Compliant			 Page: 2 of 5

5.MATERIAL LIST:

NO.	NAME	MATERIAL	RATING	MANUFACTURER	UL NO.
1.	CORE	FERRITE CORE MZ4 PQ-2020		ALLITON ENTERPRISE CO.,LTD.	
2.	BOBBIN	T375J	150°C	CHANG CHUN PLASTICS CO.,LTD.	E59481
3.	WIRE	POLYURETHANE ENAMELLED COPPER WIRE (2UEW)	130°C	PACIFIC ELECTRIC WIRE & ABLE(SHENZHEN) CO.,LTD. HUIYANG GOLDEN OCEAN MAGNET WIRE FACTORY. ZHENG YI ELECTRICAL MATERIAL LTD.,CO.	E84081 E225143 E316891
4.	TAPE	MYLAR TAPE #35660Y #1350F	130°C	SYMBIO INC. 3M CO.,LTD.	E50292 E17385
5.	MARGIN TAPE	POLYSTER #35661 TAPE #44	130°C	SYMBIO INC. 3M CO.,LTD.	E50292 E17385
6.	TUBE	TEFLON TUBE	200°C	FLUO TECH INDUSTRIES CO;LTD.	E175982
7.	EPOXY	471-5LL-HV A/B (BLACK)	130°C	JASDI CHEMICALS CO.,LTD.	E87039
8.	TIN	ANTI-OXIDE SOLDER (LEAD-FREE)		HENGGANG XIKENG SHENGNNAN OR EQUIVALENT MATERIAL	
9.	VARNISH	BC-346A	200°C	JOHN C DOLPH COMPANY	E317429

*ABOVE ALL MATERIAL MAY CHANGE BY EQUIVALENT MATERIAL AND SIZE,
BUT NOT WITHOUT PRIOR APPROVAL

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Description: PQ2020 Core, Custom Transformer RoHS Compliant			 Page: 3 of 5

TEST DATA: 5/31/19

ITEM	INDUCTANCE						
PIN	1-2	6-4	5-3	7-8	10-9	12-11	14-13
SPEC	42.3 μ H	121 μ H	121 μ H	6.25 μ H	182 μ H	121 μ H	144 μ H
STD	$\pm 10\%$						
FREQ	M-6377 (30KHZ/0.1V)						
Sample	42.30	121.25	122.21	7.72	185.28	122.83	144.88
1	41.97	119.74	120.40	6.63	187.45	124.10	145.73
2	43.35	123.57	123.60	6.70	191.18	136.19	149.54
3	41.98	120.65	119.96	6.59	187.37	123.74	146.54
4	43.38	124.84	124.93	6.73	192.60	127.27	150.05
5	43.88	125.64	125.70	6.85	196.48	130.72	152.75
ITEM	DCR						
PIN	1-2	6-4	5-3	7-8	10-9	12-11	14-13
SPEC	0.507 Ω	0.140 Ω	0.350 Ω	0.026 Ω	0.492 Ω	1.000 Ω	1.110 Ω
STD	MAX						
FREQ	CH-502A (AT25°C)						
Sample	0.426	0.115	0.285	0.022	0.451	0.900	0.975
1	0.435	0.121	0.31	0.024	0.454	0.931	0.991
2	0.437	0.122	0.31	0.025	0.462	0.960	1.020
3	0.434	0.123	0.31	0.024	0.462	0.960	1.019
4	0.435	0.122	0.31	0.024	0.461	0.960	1.021
5	0.438	0.121	0.31	0.024	0.461	0.957	1.015

Rev.	Date	Description	By
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Description: PQ2020 Core, Custom Transformer RoHS Compliant			4 of 5 

TEST DATA: 5/31/19

ITEM	TURNS RATIO					
PIN	6-4 : 5-3	6-4 : 1-2	6-4 : 7-8	6-4 : 14-13	6-4 : 12-11	6-4 : 10-9
SPEC	22 : 22	22 : 13	22 : 5	22 : 24	22 : 22	22 : 27
STD	$\pm 3\%$					
FREQ	CH-310 (20KHZ/1V)					
Sample	21.99	12.65	4.85	23.42	21.42	26.32
1	21.96	12.90	4.88	23.50	21.48	26.37
2	21.92	12.91	4.85	23.34	21.44	26.26
3	21.84	12.85	4.85	23.37	21.42	26.28
4	21.93	12.84	4.85	23.37	21.34	26.19
5	21.92	12.88	4.87	23.43	21.36	26.29
ITEM	HI-POT					
PIN	PIN1.5.6- PIN7.10.12.14	PIN1- PIN5.6	PIN7- PIN10.12.14	PIN14- PIN10.12	PIN12- PIN10	
SPEC	AC2300V	AC600V	AC600V	AC600V	AC600V	
STD	3mA	3mA	3mA	3mA	3mA	
FREQ	1MIN	1MIN	1MIN	1MIN	1MIN	
Sample	OK	OK	OK	OK	OK	
1	OK	OK	OK	OK	OK	
2	OK	OK	OK	OK	OK	
3	OK	OK	OK	OK	OK	
4	OK	OK	OK	OK	OK	
5	OK	OK	OK	OK	OK	

Rev.	Date	Description	By
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