



SPECIFICATION FOR APPROVAL

DESCRIPTION RADIAL INDUCTORS

ISSUED NO. STD-CD2810-002AS



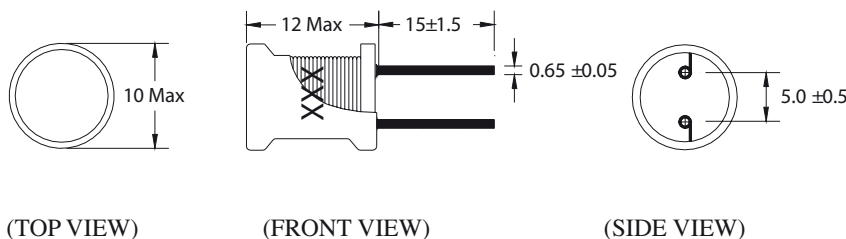
YOUTH'S P/N CD2810 * □ □ □ □ S

CUSTOMER'S P/N 11/1690

CUSTOMER		COIL SPECIFICATION	REVISION	
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YOUTH P/N	CD2810* XXXX S		SAMPLE NO	
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EXTERNAL DIMENSIONS:

UNIT: mm



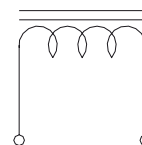
MATERIAL LIST:

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL	UL CARD	SGS CARD
1	CORE	1CDR2W080100MGB1-44S			GZ0612193468/CHEM
2	WIRE	1W2UEW		E201757	CE/2006/C1425
3	FLUX	1EEFL-W600A-1S			GZ0703041155/CH EM
4	SOLDER	1MTIN-Sn0.7Cu-2			KA2006/C1814-01R1
5	TUBE	1ATBPV085130			GZ0612193030/CHEM
		1ATBPE080130			

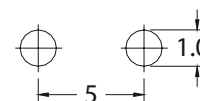
ELECTRICAL CHARACTERISTICS:

TEST FREQUENCY	: 1KHz/250mV (CH-1061)
INDUCTANCE	: 1.0uH~1000uH
DC RESISTANCE	: 0.01Ω ~2.9Ω Max (CH-502A)
RATED DC CURRENT	: 0.29A~10A Max (Lower Inductance by 10%)
Q	: 20~40 Min (MQ-1601)
SELF-RESONANT FREQUENCY	: 1.3MHz~150MHz Min.
OPERATING TEMPERATURE	: -40°C~+125°C
STORAGE TIME LIMITED	: 12 MONTHES FROM SHIPPING.

CIRCUIT:



PAD:



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SPECIFICATION:

PART NUMBER	NOMINAL INDUCTANCE @1KHz (uH)	Q Min	Q TESTING FREQUENCY (MHz)	SELF-RESONANT FREQUENCY (MHz) Min	DC RESISTANCE (Ω) Max	RATED DC CURRENT (A) Max
CD2810*1R0 □S	1.0	20	7.96	150	0.010	10.0
CD2810*1R5 □S	1.5	20	7.96	130	0.012	8.5
CD2810*2R2 □S	2.2	20	7.96	100	0.013	6.5
CD2810*3R3 □S	3.3	20	7.96	79	0.016	5.5
CD2810*4R7 □S	4.7	20	7.96	51	0.020	4.3
CD2810*6R8 □S	6.8	20	7.96	29	0.023	3.7
CD2810*8R2 □S	8.2	20	7.96	23	0.026	3.5
CD2810*100 □S	10	40	2.52	14	0.030	3.0
CD2810*120 □S	12	40	2.52	13	0.033	2.6
CD2810*150 □S	15	40	2.52	12	0.040	2.3
CD2810*180 □S	18	40	2.52	11	0.044	2.2
CD2810*220 □S	22	40	2.52	9.2	0.056	2.0
CD2810*270 □S	27	40	2.52	8.5	0.077	1.7
CD2810*330 □S	33	30	2.52	7.8	0.087	1.6
CD2810*390 □S	39	30	2.52	6.9	0.098	1.5
CD2810*470 □S	47	30	2.52	6.5	0.11	1.4
CD2810*560 □S	56	30	2.52	5.4	0.13	1.3
CD2810*680 □S	68	30	2.52	4.9	0.14	1.2
CD2810*820 □S	82	30	2.52	4.1	0.19	1.1
CD2810*101 □S	100	20	0.796	3.7	0.23	0.91
CD2810*121 □S	120	20	0.796	3.4	0.30	0.84
CD2810*151 □S	150	20	0.796	3.2	0.35	0.75
CD2810*181 □S	180	20	0.796	2.8	0.39	0.69
CD2810*221 □S	220	20	0.796	2.7	0.49	0.64
CD2810*271 □S	270	20	0.796	2.4	0.59	0.57
CD2810*331 □S	330	20	0.796	2.3	0.79	0.54
CD2810*391 □S	390	20	0.796	2.1	0.87	0.48
CD2810*471 □S	470	20	0.796	1.9	0.95	0.46
CD2810*561 □S	560	20	0.796	1.8	1.2	0.41
CD2810*681 □S	680	20	0.796	1.6	1.6	0.38
CD2810*821 □S	820	20	0.796	1.5	1.8	0.35
CD2810*102 □S	1000	40	0.252	1.3	2.9	0.29

NOTE:

? * Inductance Tolerance = $\pm 5\%$, K= $\pm 10\%$, M= $\pm 20\%$.

CUSTOMER		RELIABILITY TEST	REVISION	
CUS. P/N			PAGE	
YOUTH P/N	CD2810* XXXX□S		SAMPLE NO	
DRAWN NO	STD-CD2810-002AS		DATE	2007/10/16
TEST ITEMS		TEST CONDITIONS / TEST METHODS		
TEMPERATURE CHARACTERISTIC		1. -40°C ÷ +125°C 2. TEST THE INDUCTANCE AND DC RESISTANCE ON THE BASIS 25°C.THE VARIATION SHALL NOT EXCEED 50%		
HUMIDITY TEST		40°C±2°C/ 96±2 HOURS R.H : 90-95%RH		
LOW TEMPERATURE STORAGE		1.TEMPERATURE:- 40°C± 2°C 2.TIME: 96±2 HOURS		
HIGH TEMPERATURE STORAGE		1.APPLIED CURRENT: MAX RATED CURRENT 2.TEMPERATURE:125°C±2°C 3.TIME: 96±2 HOURS		
THERMAL SHOCK TEST		1.-40±5°C FOR 30 MINUTES. +125±5°C FOR 30 MINUTES. 2.TOTAL: 10 CYCLES		
VIBRATION TEST (LOW FREQUENCY)		1.AMPLITUDE: 3 mm 2.FREQUENCY: 10-55-10HZ / 1 MIN 3.DIRECTION: X, Y, Z 4.DURATION: 2 HRS/X, Y, Z		
SOLDER HEAT RESISTANCE		PREHEAT:150°C 60SECS SOLDER: (63Sn/37Pb) SOLDER TEMPERATURE: 260±5°C FLUX: ROXIN.. DIP TIME: 10±0.5 SECS.		
SOLDERABILITY TEST		AFTER FLUXING, INDUCTOR SHALL BE DIPPED IN A MELTED SOLDER BATH AT 230±5°C FOR 5 SECONDS		
TERMINAL STRENGTH		TERMINALS ARE SUBJECTED TO A PULLING AND PUSHING FORCE OF 1.5Kg MIN IN THE AXIS DIRECTIONS FOR 1 MINUTES		