



【SPECIFICATION FOR APPROVAL】

SAN TUO P/N	ACD54 Series	DATE	2016-10-15	REV	A
变更履历					
版本	变更项目	变更前内容	变更后内容	变更日期	
A	初版	—	—	2016-10-15	



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Wire Wound SMD Power Inductors—CD54 Series

Operating temperature range: -40°C~+105°C (Including self-heating)

1.PART NUMBERING SYSTEM

ACD	54	XXX	—	X	S
1	2	3		4	5

1.SERIES NAME

2.DIMENSIONS

3.INDUCTANCE

4.TOLERANCE CODE: J:±5% K:±10% L:±15% M:±20% P:±25% N:±30%

5.INTERNAL IDENTIFICATION

2.FEATURES:

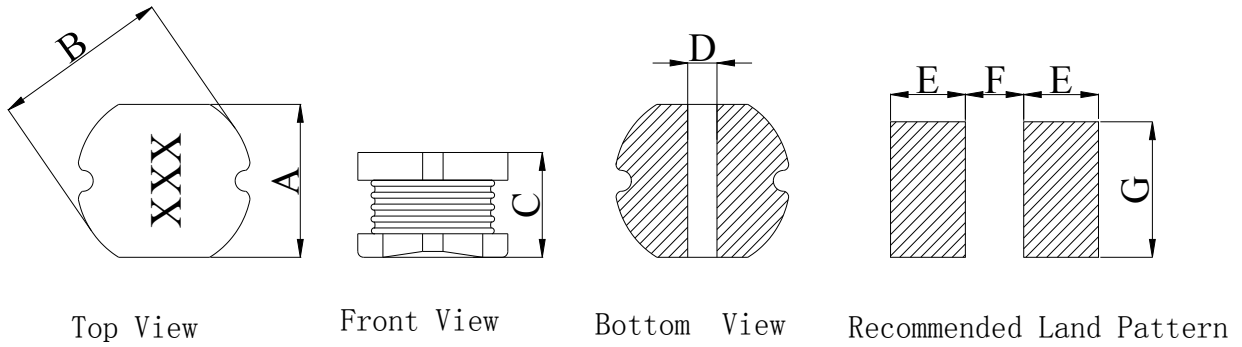
- Silver Plated Type,low cost designed
- High power, High saturation inductors
- Ideal inductors for DC-DC conversion
- Available on tape and reel for auto surfacemounting
- Takes up less PCB real estate and save more power

3.APPLICATIONS

- Power supply for VTRs
- LCD televisions
- Notebook PCs
- Portable communication equipment
- DC/DC converters.etc

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1. Appearance shape (unit : mm)



2. Appearance size(unit : mm) Tolerance:

A	B	C	D	E	F	G				
5.20	5.80	4.50	2.00	2.15	1.70	5.50				
±0.3	±0.3	±0.3	REF	REF	REF	REF				

3. Test instruments

L: TH2826A LCR METER (or equivalent)

IDC: CH2815 LCR METER+VR7220 DC SUPPLIER (or equivalent)

DCR: HK502BC MILLIOHMMETER (or equivalent)



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4. CHARACTERISTICS

SAN TUO P/N	Inductance 电感	Test Frequency 测试频率 (Voltage 0.25V)	DC Resistance 直流电阻 (MAX)	Rated Current 额定电流 (MAX)	Marking 印字
Units	uH	HZ	Ω	A	
Symbol	L	F	DCR	IDC	
ACD54-1R0M-S	1.0±20%	100KHz	15m	5.00	1R0
ACD54-1R5M-S	1.5±20%	100KHz	17m	4.65	1R5
ACD54-1R8M-S	1.8±20%	100KHz	20m	4.10	1R8
ACD54-2R2M-S	2.2±20%	100KHz	27m	3.50	2R2
ACD54-2R7M-S	2.7±20%	100KHz	29m	3.40	2R7
ACD54-3R3M-S	3.3±20%	100KHz	35m	3.20	3R3
ACD54-3R9M-S	3.9±20%	100KHz	36m	3.00	3R9
ACD54-4R7M-S	4.7±20%	100KHz	45m	2.50	4R7
ACD54-5R6M-S	5.6±20%	100KHz	46m	2.30	5R6
ACD54-6R8M-S	6.8±20%	100KHz	55m	2.10	6R8
ACD54-8R2M-S	8.2±20%	100KHz	56m	1.80	8R2
ACD54-100M-S	10±20%	1KHz	100m	1.44	100
ACD54-120M-S	12±20%	1KHz	120m	1.40	120
ACD54-150M-S	15±20%	1KHz	140m	1.30	150
ACD54-180M-S	18±20%	1KHz	150m	1.23	180
ACD54-200M-S	20±20%	1KHz	160m	1.15	200
ACD54-220M-S	22±20%	1KHz	180m	1.11	220
ACD54-270M-S	27±20%	1KHz	0.20	0.97	270
ACD54-300M-S	30±20%	1KHz	0.21	0.90	300
ACD54-330M-S	33±20%	1KHz	0.23	0.88	330
ACD54-390M-S	39±20%	1KHz	0.32	0.80	390
ACD54-470M-S	47±20%	1KHz	0.37	0.72	470
ACD54-560M-S	56±20%	1KHz	0.42	0.68	560
ACD54-680M-S	68±20%	1KHz	0.46	0.61	680
ACD54-820M-S	82±20%	1KHz	0.60	0.58	820
ACD54-101M-S	100±10%	1KHz	0.70	0.52	101
ACD54-121K-S	120±10%	1KHz	1.00	0.48	121
ACD54-151K-S	150±10%	1KHz	1.10	0.40	151
ACD54-181K-S	180±10%	1KHz	1.38	0.38	181
ACD54-221K-S	220±10%	1KHz	1.57	0.35	221
ACD54-271K-S	270±10%	1KHz	1.85	0.29	271
ACD54-331K-S	330±10%	1KHz	2.00	0.28	331
ACD54-391K-S	390±10%	1KHz	2.60	0.26	391
ACD54-471K-S	470±10%	1KHz	3.00	0.12	471
ACD54-561K-S	560±10%	1KHz	4.19	0.10	561
ACD54-681K-S	680±10%	1KHz	4.44	0.08	681
ACD54-821K-S	820±10%	1KHz	5.12	0.05	821
ACD54-102K-S	1000±10%	1KHz	10.00	0.03	102

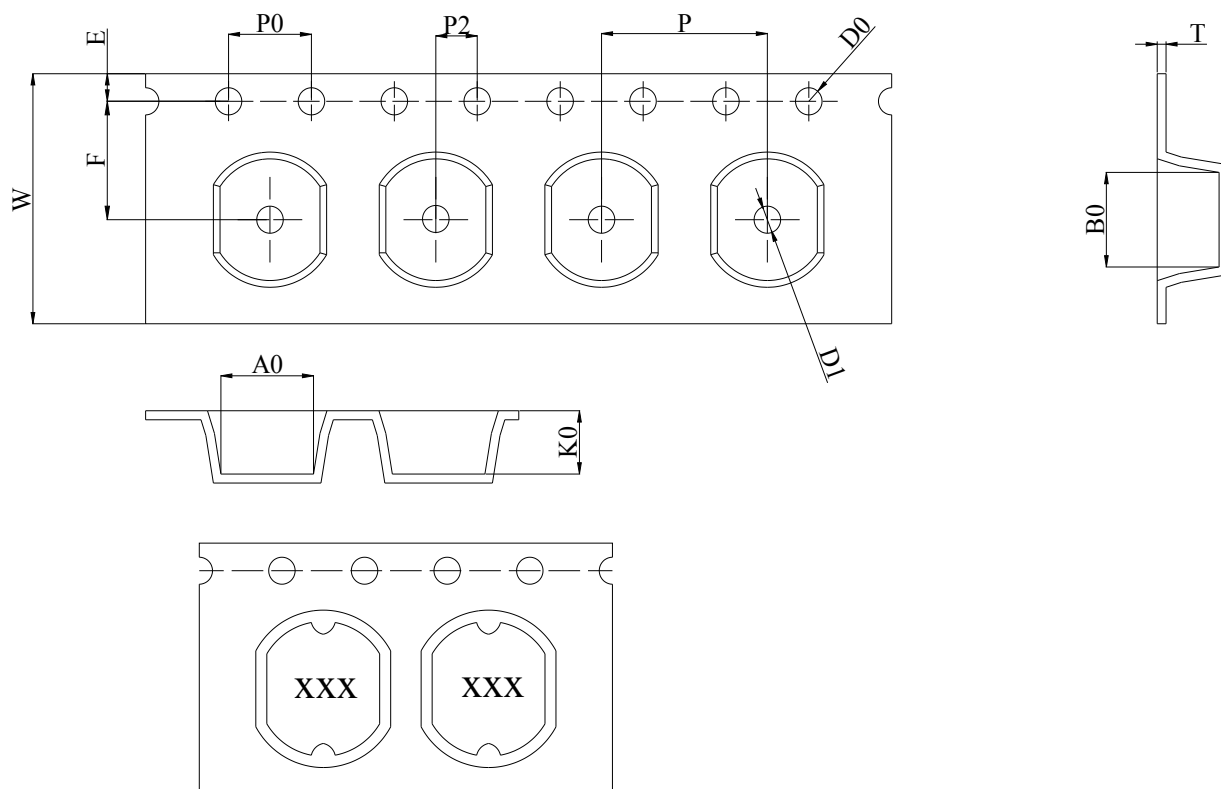
※1: All test data is referenced to 20°C ambient;

※2: Rated current: The DC current at which the inductance decreases to 90% of its initial value or when ($\Delta T = 40^\circ\text{C}$), whichever is lower ($T_a = 20^\circ\text{C}$);

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1.DIMENSIONS FOR CARRIER TAPES:(unit:mm)

ITEM	W	A0	B0	K0	P	F	E	DO	D1	P0	P2	T
DIM	12.00 +0.3 -0.3	5.9	6.3	5.0	8.00 +0.1 -0.1	5.50 +0.1 -0.1	1.75 +0.1 -0.1	1.50 +0.1 -0.0	0.00 +0.0 -0.0	4.00 +0.1 -0.1	2.00 +0.1 -0.1	0.32 +0.05 -0.05



2.PACKING(mm)

载带宽度 (W)	间距 (P)	卷(PCS) 13inch	4卷/2袋 (PCS)	2袋/内箱 (PCS)	5内箱/外箱 (PCS)
12mm	8mm	1500	6000	6000	30000

备注:

- 1.包装袋规格: 375*400mm (REF.) .
- 2.内箱规格: 340*70*340mm (REF.) .
- 3.外箱规格: 375*360*360mm (REF.) .