

SMCH 系列共模线圈 SMCH Series Common Mode Chokes

特征 Features

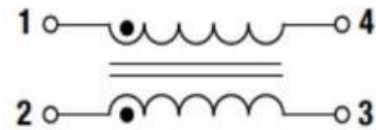
超薄大电流	Low Profile & High Current
温度最高125°C	High Temperature, Up to 125°C
车载AEC-Q200标准	Complaint with AEC-Q200



应用 Applications

辅助驾驶	ADAS
车载大灯	LED Head Lighting
车载DC/DC转换	Automotive DC/DC Converters

电路接线图 Circuit

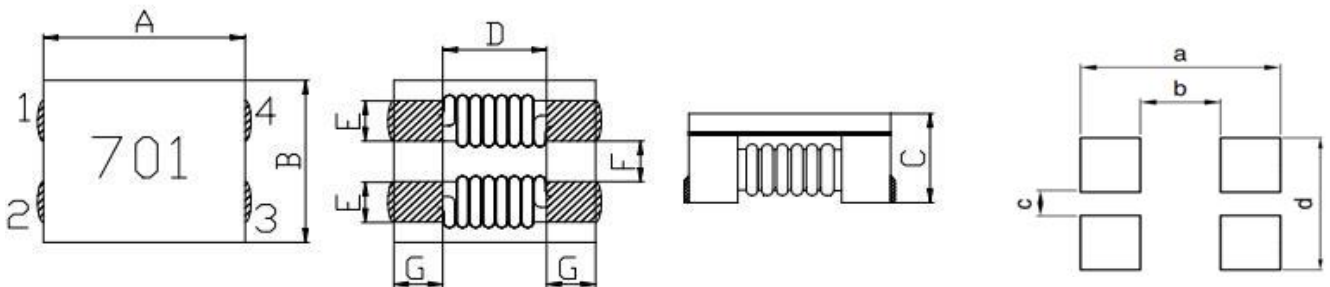


产品规格型号表示方法 How to Order

SMCH 1210 - 701 Y C
① ② ③ ④ ⑤ ⑥

① 产品代号 Product Code		② 规格尺寸(L×W×T) Dimensions(mm)		③ 材质代号 Material Code		④ 阻抗(Ω) Impedance		⑤ 误差(%) Tolerance		⑥ 应用领域 application area	
SMCH	SMCH 系列 SMCH Series	1210	12.5×10.8× 6.5	无 镍锌 Ni-Zn	M 锰锌 Mn-Zn	1R0 100 101 102	1.0 10 100 1000	K M P N Y	10 20 25 30 其它	C S T	车载品 125°C Automotive 125°C. 标准品 For standard. 特制品 For special.

外型尺寸 Dimensions(mm)



Type Name	A	B	C	D	E	F	G	a	b	c	d
SMCH4520	4.7±0.5	4.5±0.3	2.0 Max.	2.7 Typ.	0.8 Typ.	1.25 Typ.	1.0 Typ.	6.0 Typ.	2.7 Typ.	1.0 Typ.	3.0 Typ.
SMCH7060	7.0±0.5	6.0±0.3	3.8 Max.	3.5 Typ.	1.6 Typ.	1.4 Typ.	1.7 Typ.	9.0 Typ.	3.5 Typ.	1.4 Typ.	4.8 Typ.
SMCH9070	9.0±0.5	7.0±0.3	4.8 Max.	5.6 Typ.	1.7 Typ.	2.1 Typ.	1.8 Typ.	10.5 Typ.	5.6 Typ.	2.1 Typ.	5.6 Typ.
SMCH1210	12.5±0.5	10.8±0.3	6.5 Max.	6.8 Typ.	2.8 Typ.	2.4 Typ.	2.8 Typ.	14.0 Typ.	6.8 Typ.	2.4 Typ.	8.0 Typ.
SMCH1513	15.0±0.5	13.0±0.4	6.5 Max.	10.5 Typ.	2.7 Typ.	3.8 Typ.	2.3 Typ.	17.0 Typ.	10.5 Typ.	3.8 Typ.	9.2 Typ.

性能参数 ELECTRICAL CHARACTERISTICS:

SMCH4520 Series

规格型号 Part No.	Impedance(Ω) 100MHz/0.1V		Rdc(m Ω)	I _{DC} (A)	IR(M Ω)	V _{DC} (V)	印字 Stamp
	Min.	Typ.	Max.	Max.	Min.	Max.	
SMCH4520-900YC	60	90	35	2.0	10	50	900
SMCH4520-151YC	90	150	40	1.9	10	50	151
SMCH4520-231YC	180	230	45	1.8	10	50	231
SMCH4520-301YC	200	300	45	1.7	10	50	301
SMCH4520-401YC	300	420	50	1.5	10	50	400
SMCH4520-701YC	500	700	59	1.4	10	50	701
SMCH4520-901YC	650	900	68	1.3	10	50	901
SMCH4520-102YC	800	1000	68	1.3	10	50	102
SMCH4520-122YC	1000	1200	75	1.2	10	50	122
SMCH4520-142YC	1200	1400	81	1.2	10	50	142

SMCH7060 Series

规格型号 Part No.	Impedance(Ω) 100MHz/0.1V		Rdc(m Ω)	I _{DC} (A)	IR(M Ω)	V _{DC} (V)	印字 Stamp
	Min.	Typ.	Max.	Max.	Min.	Max.	
SMCH7060-400YC	40	70	5.0	15.0	10	80	400
SMCH7060-101YC	100	140	10	9.0	10	80	101
SMCH7060-301YC	225	300	10	5.0	10	80	301
SMCH7060-501YC	350	500	10	5.0	10	80	501
SMCH7060-601YC	500	700	15	4.0	10	80	601
SMCH7060-701YC	500	700	15	4.0	10	80	701
SMCH7060-102YC	800	1000	17	3.0	10	80	102
SMCH7060-132YC	910	1300	21	2.5	10	80	132
SMCH7060-152YC	1300	1500	35	1.8	10	80	152
SMCH7060-272YC	2000	2700	63	1.0	10	80	272
SMCH7060-302YC	2500	3000	75	0.9	10	80	302

SMCH9070 Series

规格型号 Part No.	Impedance(Ω) 100MHz/0.1V		Rdc(m Ω)	I _{DC} (A)	IR(M Ω)	V _{DC} (V)	印字 Stamp
	Min.	Typ.	Max.	Max.	Min.	Max.	
SMCH9070-101YC	70	100	4.5	8.0	10	80	101
SMCH9070-301YC	225	300	6.0	6.0	10	80	301
SMCH9070-501YC	450	600	8.0	5.5	10	80	501
SMCH9070-701YC	500	700	10	5.0	10	80	701
SMCH9070-102YC	750	1000	13	4.0	10	80	102
SMCH9070-152YC	1200	1500	35	3.0	10	80	152
SMCH9070-222YC	1700	2000	60	2.5	10	80	222
SMCH9070-272YC	2000	2700	86	2.0	10	80	272
SMCH9070-302YC	3000	+50% -30%	90	1.5	10	80	302

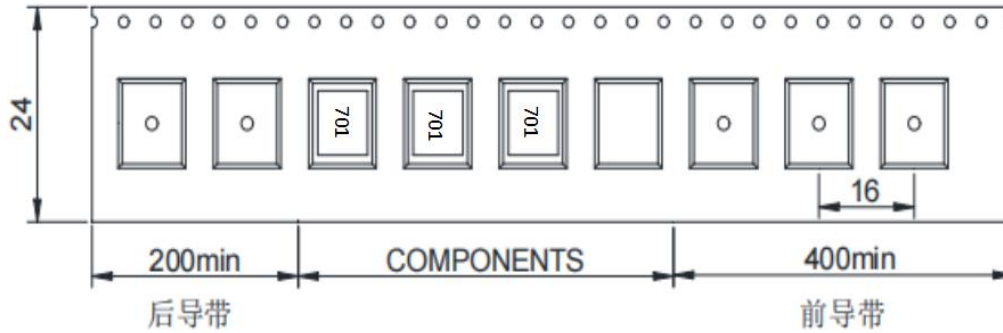
SMCH1210 Series

规格型号 Part No.	Impedance(Ω) 100MHz/0.1V		Rdc(m Ω)	I _{DC} (A)	IR(M Ω)	V _{DC} (V)	印字 Stamp
	Min.	Typ.	Max.	Max.	Min.	Max.	
SMCH1210-800YC	40	80	2.5	13.0	10	80	800
SMCH1210-231YC	100	230	3.5	10.0	10	80	231
SMCH1210-501YC	350	500	5.0	9.0	10	80	501
SMCH1210-701YC	500	700	6.0	8.0	10	80	701
SMCH1210-102YC	750	1000	12	6.0	10	80	102
SMCH1210-202YC	1400	2000	14	4.0	10	80	202
SMCH1210-252YC	2000	2500	25	3.6	10	80	252
SMCH1210-272YC	2300	2700	50	1.5	10	80	272
SMCH1210-302YC	2500	3000	90	1.1	10	80	302

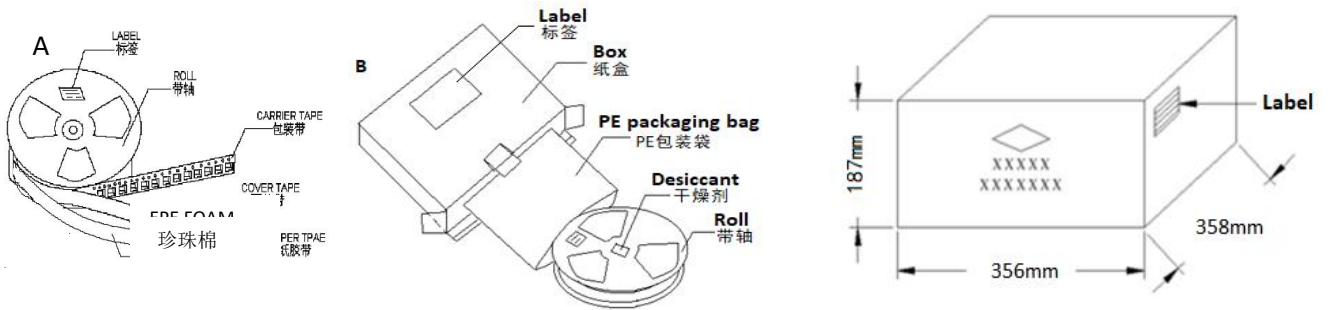
SMCH1513 Series

规格型号 Part No.	Impedance(Ω) 100MHz/0.1V		Rdc(m Ω)	I _{DC} (A)	IR(M Ω)	V _{DC} (V)	印字 Stamp
	Min.	Typ.	Max.	Max.	Min.	Max.	
SMCH1513-301YC	250	300	5	13.0	10	80	301
SMCH1513-551YC	450	550	6	12.0	10	80	551
SMCH1513-701YC	600	800	7	11.0	10	80	701
SMCH1513-102YC	800	1000	12	10.0	10	80	102
SMCH1513-152YC	1300	1500	35	8.0	10	80	152
SMCH1513-222YC	1800	2200	50	6.0	10	80	222
SMCH1513-302YC	2500	3000	75	4.0	10	80	302

包装材料及规格 Packaging Materials and Specifications



包装方式及数量 The Packing Method and Quantity

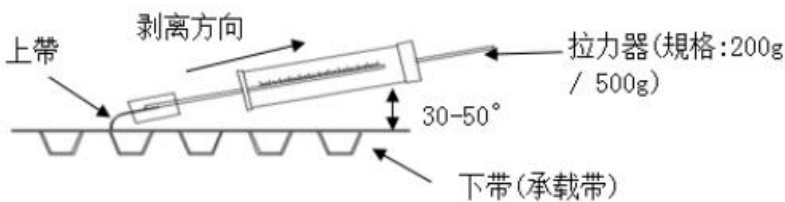


规格型号 Part No.	卷盘大小 Reel Size	卷盘数量 Reel Q'ty	内箱 Inner Box	外箱 Outer Box
SMCH4520	178 mm	1000 pcs	10000 pcs	40000 pcs
SMCH7060	330 mm	1500 pcs	4500 pcs	22500 pcs
SMCH9070	330 mm	750 pcs	1500 pcs	3000 pcs
SMCH1210	330 mm	500 pcs	1000 pcs	4000 pcs
SMCH1513	330 mm	400 pcs	800 pcs	2400 pcs

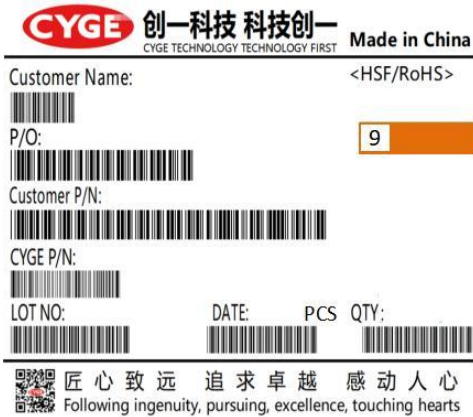
剥离强度 Peeling Strength

在箭头方向上撕下20克到110克(0.2N到1.1N)的力,剥离速度300mm/MIN以上.

The force tearing off cover 20 to 110 grams (0.2N to 1.1N) in the arrow direction under the following conditions, The stripping speed is above 300mm/minute.



内外箱标识内容 Inside and Outside Box Identification Content



储存条件/注意的事项 Storage Conditions/Note things

1. 贮存温度、湿度条件 Storage temperature and humidity conditions :
 - 1.1. 产品包装与载体:- 5℃~ + 40℃, 低于60% RH.
Product packing with Carrier tape: -5℃~+40℃ and less than 60% RH.
 - 1.2. 单独的产品:-20℃~ + 60℃, 低于60% RH.
Product alone: -20℃~+60℃ and less than 60% RH.
2. 产品在6个月内使用(注意:产品一经拆开包装,须尽快使用).
Products should be used within 6 months.
(Note that the product should be used as soon as possible once it is folded) .
3. 包装材料应保存在空气中不存在氯或硫的地方.
The packaging material should be kept where no chlorine or sulfur exists in the air.
4. 不要用手指触摸电极(焊接端子),因为这可能导致焊接能力的下降.
Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability.
5. 个别零件强烈建议使用镊子或真空取料机散装搬运应减少磨损和机械冲击.
The use of tweezers or vacuum pick-ups is strongly recommended for individual components.
Bulk handling should ensure that abrasion and mechanical shock are minimized.