

# SMD Power Inductors—SCDR0703-129 Series

## SCDR Series



### Features

RoHS, Halogen Free and REACH Compliance  
 Shielded power inductor  
 Various package size and wide inductance range

### Applications

Power supply for VTR, OA equipment  
 LCD television set, notebook PC  
 Portable communication, equipment  
 DC/DC converters, etc.

### Product Identification

SCDR XXX RTL - XXXM  
 For example:SCDR127RTL-220M

### General Specifications

Test frequency.....100KHz  
 Test Voltage.....0.25V  
 Parameters Test Temp..... 25℃  
 Operation Temp.....-40℃ to +125℃  
 (Including temperature Rise)  
 Storage Temp.....0~-40℃  
 Storage Humidity.....<70% RH  
 Resistance to Soldering Heat.....260℃ for 10 sec  
 Rated Current.....Ind. drops of 35%typ at Isat

## Shape And Dimensions

Fig.1

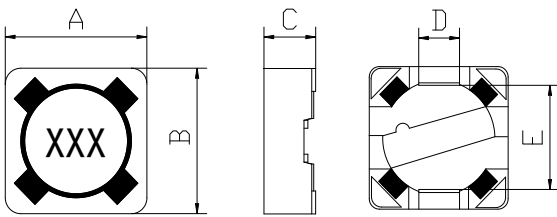
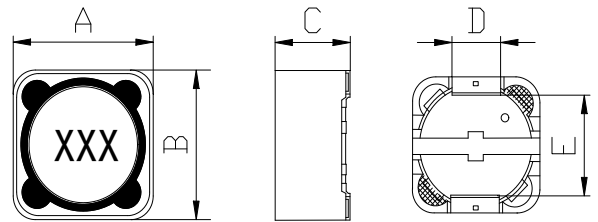


Fig.2



## Electrical Schematic & PAD Layout



## Standard Specifications

TYPE	A	B	C	D	E	H	I	J	Shape
	Max	Max	Max	Ref	Ref	Ref	Ref	Ref	
0703	7.5	7.5	3.5	2.0	5.1	3.1	2.0	4.4	Fig.1
0704	7.5	7.5	4.5	2.0	5.1	3.1	2.0	4.4	Fig.1
124	12.5	12.5	4.5	5.0	7.6	5.4	3.0	7.0	Fig.2
125	12.5	12.5	6.0	5.0	7.6	5.4	3.0	7.0	Fig.2
127	12.5	12.5	8.0	5.0	7.6	5.4	3.0	7.0	Fig.2
129	12.5	12.5	10.0	5.0	7.6	5.4	3.0	7.0	Fig.2

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## Standard Specifications

Stamp	Inductance (uH)	SCDR0703		SCDR0704		SCDR124		SCDR125		SCDR127		SCDR129	
		DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ
1R0	1.0	20.0	7.79	18.0	8.50	8.00	12.0	6.50	15.2			5.5	19.90
1R2	1.2									7.0	15.0		
1R5	1.5			25.0	6.00	10.0	9.50			8.0	12.0	6.0	15.8
1R8	1.8											6.5	13.4
2R2	2.2	26.0	4.50	30.0	5.00	12.0	9.10			11.5	11.5		
2R4	2.4									11.5	11.0		
2R5	2.5			32.0	4.80							8.0	12.2
2R7	2.7							9.00	10.5				
3R3	3.3	40.0	3.00	35.0	3.50	15.0	8.00	15.0	8.00	13.5	9.00		
3R5	3.3									14.0	8.80	9.7	12.0
3R9	3.9					17.0	6.5						
4R7	4.7	42.9	2.70	40.0	3.00	18.0	5.70	18.0	7.60	15.8	6.80	11.0	11.0
6R1	6.1									17.6	6.60		
6R8	6.8	60.0	2.00	45.0	2.50	23.0	4.90	23.0	5.50	20.0	6.20	11.5	10.0
7R6	7.6									20.0	5.90	14.5	8.50
8R2	8.2							24.0	5.00			15.3	8.30
100	10.0	72.0	1.68	49.0	1.84	28.0	4.50	25.0	4.00	21.6	5.40	17.0	8.20
120	12.0	98.0	1.52	58.0	1.71	38.0	4.00	27.0	3.50	24.3	4.90	18.5	7.04
150	15.0	130	1.33	81.0	1.47	50.0	3.20	30.0	3.30	27.0	4.50	25.0	5.22
180	18.0	140	1.20	91.0	1.31	57.0	3.10	34.0	3.00	39.2	3.90	26.5	5.15
220	12.0	190	1.07	110	1.23	66.0	2.90	36.0	2.80	43.2	3.60	29.0	5.12
270	27.0	210	0.96	150	1.12	80.0	2.80	51.0	2.30	45.9	3.40	45.0	4.50
330	33.0	240	0.91	170	0.96	97.0	2.70	57.0	2.10	64.8	3.00	53.0	4.25
390	39.0	320	0.77	230	0.91	132	2.10	68.0	2.00	72.8	2.75	56.0	4.00
470	47.0	360	0.76	260	0.88	150	1.90	75.0	1.80	100	2.50	63.0	3.60
560	56.0	470	0.68	350	0.75	190	1.80	110	1.70	110	2.35	68.0	2.85
680	68.0	520	0.61	380	0.69	220	1.50	120	1.50	140	2.10	93.0	2.76
820	82.0	690	0.57	430	0.61	260	1.30	140	1.40	160	1.95	99.0	2.62
101	100.0	790	0.50	610	0.60	308	1.20	160	1.30	220	1.70	126	2.31
121	120.0	890	0.49	660	0.52	380	1.10	170	1.10	250	1.60	154	2.05
151	150.0	1270	0.43	880	0.46	530	0.95	230	1.00	280	1.42	174	1.80
181	180.0	1450	0.39	980	0.42	620	0.85	290	0.90	350	1.30	191	1.66
221	220.0	1650	0.35	1170	0.36	700	0.80	400	0.80	390	1.16	246	1.64
271	270.0	2310	0.32	1640	0.34	876	0.60	460	0.75	560	1.06	400	1.55
331	330.0	2620	0.28	1860	0.32	990	0.50	510	0.68	640	0.95	386	1.28
391	390.0	2940	0.26	2850	0.29			690	0.65	700	0.88	500	1.10
471	470.0	4180	0.24	3010	0.26			770	0.58	980	0.79	550	1.06
561	560.0	4670	0.22	3620	0.23			860	0.54	1070	0.73	650	1.01
681	680.0	5730	0.19	4630	0.22			1200	0.48	1460	0.67	730	0.83
821	820.0	6540	0.18	5200	0.20			1340	0.43	1640	0.60	824	0.81
102	1000.0	9440	0.16	6000	0.18			1530	0.40	1820	0.55	1220	0.70
122	1200.0											1330	0.64
152	1500.0											1990	0.56
182	1800.0											2180	0.48
222	2200.0											2580	0.43
332	3300.0									7800	0.33	4600	0.37

Note: When ordering, please specify tolerance code. Tolerance: K=±10%, L=±15%, M=±20%, N=±30%

\*All the data listed in this catalogue are for reference only, reserves the right to alter or revise the specifications without prior notification.

\*Beyond the above specification also can meet the special requirements. Need detailed content Please to the website query or contact us.