

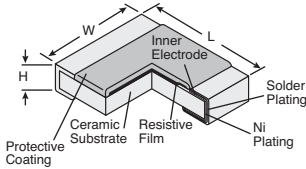
# KOA SMD Lo-Ohm Current Sense Resistors



KOA SPEER ELECTRONICS, INC.

### SR73 SERIES - THICK FILM 0201, 0402, 0603, 0805, 1206, 1210, 2010, 2512

This product is RoHS compliant. \*Insert Value Code from Table of Values



- Features:**
- RuO<sub>2</sub> thick film resistor element
  - Anti-leaching nickel barrier terminations
  - Meets or exceeds EIA 575, EIA PDP-100, MIL-R-55342F
  - Marking: Three or four-digits on indigo protective coat
  - No marking. 1E size, 1H, black protective coat

Type	DIMENSIONS: in. (mm)		
	L	W	H
0201	.024 (0.6)	.012 (0.3)	.009 (0.23)
0402	.039 (1.0)	.02 (0.5)	.014 (0.35)
0603	.063 (1.6)	.031 (0.8)	.018 (0.45)
0805	.079 (2.0)	.049 (1.25)	.02 (0.5)
1206	.126 (3.2)	.063 (1.6)	.024 (0.6)
1210	.126 (3.2)	.102 (2.6)	.024 (0.6)
2010	.197 (5.0)	.098 (2.5)	.024 (0.6)
2512	.248 (6.3)	.122 (3.1)	.024 (0.6)

Size	MOUSER STOCK NO.	Value	Suffix	Value Range (Ω)	Tol. (%)	TCR (ppm/°C)	Price Each			Reel Qty	Price Per Piece
							1	100	1000		
0201	660-SR731HTTC	Code J	F	0.47 - 0.82	1%	400	.40	.31	.27	10000	.20
		Code F	J	1.0 - 10	5%	400	.43	.33	.29	10000	.21
0402	660-SR731ETTP	Code F	F	0.1-0.118	1%	500	.43	.33	.29	10000	.21
		Code F	F	0.2-0.464	1%	250	.43	.33	.29	10000	.21
0603	660-SR731JTTD	Code F	F	0.51-10	1%	200	.43	.33	.29	10000	.21
		Code F	J	0.1-1.0	1%	250	.43	.33	.29	5000	.24
0805	660-SR732ATTE	Code J	F	30m-91m	5%	200	1.11	.52	.45	4000	.35
		Code F	F	0.1-0.464	1%	100	.43	.33	.29	4000	.25
1206	660-SR732BTTE	Code F	F	0.475-10	1%	100	.30	.22	.16	4000	.11
		Code J	F	30m-91m	5%	200	1.11	.52	.45	4000	.35
1210	660-SR732ETTE	Code J	F	0.1-1.0	1%	100	.43	.33	.29	4000	.25
		Code F	F	24m-43m	5%	200	.79	.61	.58	4000	.44
2010	660-SR732HTTE	Code F	F	0.1-0.464	1%	100	.58	.49	.38	4000	.35
		Code F	F	0.475-10	1%	100	.40	.31	.27	4000	.23
2512	660-SR733ATTE	Code J	F	39m-82m	5%	200	1.01	.85	.80	4000	.62
		Code F	J	0.1-1.0	1%	100	.89	.74	.69	4000	.59

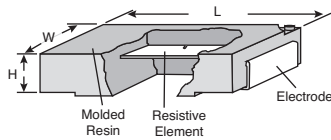
\* Not all values available in all sizes.

### TABLE OF VALUES

Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	
0.024	24L	0.116	R116	0.196	R196	0.309	R309	0.47	R47	0.715	R715	1.13	R113	1.78	R178	2.8	R280	4.3	R430	6.49	6R49	
0.027	27L	0.118	R118	0.2	R200	0.16	R316	0.475	R475	0.732	R732	1.15	R115	1.8	R180	2.87	R287	4.32	R432	6.65	6R65	
0.03	30L	0.121	R121	0.205	R205	0.324	R324	0.487	R487	0.75	R750	1.16	R116	1.82	R182	2.94	R294	4.42	R442	6.8	6R80	
0.033	33L	0.124	R124	0.21	R210	0.33	R330	0.499	R499	0.768	R768	1.18	R118	1.87	R187	3	R300	4.53	R453	6.81	6R81	
0.036	36L	0.127	R127	0.215	R215	0.332	R332	0.51	R51	0.787	R787	1.2	R120	1.91	R191	3.01	R301	4.64	R464	6.98	6R98	
0.039	39L	0.13	R130	0.218	R218	0.34	R340	0.511	R511	0.806	R806	1.21	R121	1.96	R196	3.09	R309	4.7	R470	7.15	7R15	
0.043	43L	0.133	R133	0.22	R220	0.348	R348	0.523	R523	0.82	R82	1.24	R124	2	R200	3.16	R316	4.75	R475	7.32	7R32	
0.047	47L	0.137	R137	0.221	R221	0.357	R357	0.536	R536	0.825	R825	1.27	R127	2.05	R205	3.24	R324	4.87	R487	7.5	7R50	
0.051	51L	0.1	R140	0.226	R226	0.36	R360	0.549	R549	0.845	R845	1.3	R130	2.1	R210	3.3	R330	4.99	R499	7.68	7R68	
0.056	56L	0.143	R143	0.232	R232	0.365	R365	0.56	R560	0.866	R866	1.33	R133	2.15	R215	3.32	R332	5.1	R510	7.87	7R87	
0.062	62L	0.147	R147	0.237	R237	0.374	R374	0.562	R562	0.887	R887	1.37	R137	2.18	R218	3.4	R340	5.11	R511	8.06	8R06	
0.068	68L	0.15	R150	0.24	R240	0.383	R383	0.576	R576	0.909	R909	1.4	R140	2.2	R220	3.48	R348	5.23	R523	8.2	8R20	
0.075	75L	0.154	R154	0.243	R243	0.39	R390	0.59	R590	0.91	R910	1.43	R143	2.21	R221	3.57	R357	5.36	R536	8.25	8R25	
0.082	82L	0.158	R158	0.255	R255	0.392	R392	0.604	R604	0.931	R931	1.47	R147	2.26	R226	3.6	R360	5.49	R549	8.45	8R45	
0.091	91L	0.162	R162	0.261	R261	0.402	R402	0.619	R619	0.953	R953	1.5	R150	2.32	R232	3.65	R365	5.6	R560	8.66	8R66	
0.1	R100	0.165	R165	0.27	R270	0.412	R412	0.62	R62	0.976	R976	1.54	R154	2.37	R237	3.74	R374	5.62	R562	8.87	8R87	
0.102	R102	0.169	R169	0.274	R274	0.422	R422	0.634	R634	1	R100	1.58	R158	2.4	R240	3.83	R383	5.76	R576	9.09	9R09	
0.105	R105	0.174	R174	0.28	R280	0.43	R430	0.649	R649	1.02	R102	1.6	R160	2.43	R243	3.9	R390	5.9	R590	9.1	9R10	
0.107	R107	0.178	R178	0.287	R287	0.432	R432	0.665	R665	1.05	R105	1.62	R162	2.55	R255	3.92	R392	6.04	R604	9.31	9R31	
0.11	R110	0.182	R182	0.294	R294	0.442	R442	0.68	R680	1.07	R107	1.65	R165	2.61	R261	4.02	R402	6.19	R619	9.53	9R53	
0.112	R112	0.187	R187	0.3	R300	0.453	R453	0.681	R681	1.1	R110	1.69	R169	2.7	R270	4.12	R412	6.2	R620	9.76	9R76	
0.113	R113	0.191	R191	0.301	R301	0.464	R464	0.698	R698	1.12	R112	1.74	R174	2.74	R274	4.22	R422	6.34	R634	10	10R0	
0.115	R115																					

### SL AND TSL SERIES RESISTORS

- Features:**
- Surface mount type
  - Flameproof UL94-V-0 molded polymer case
  - Excellent dimension accuracy, mountability and shock resistance
  - Suitable for flow, reflow and hand soldering
  - Resistance Tolerance: 1%
  - Operating Temperature Range: -55°C to +180°C
  - 1000 Piece Reels



\* Not all values available in all sizes. Insert Value Code from Table of Values.

MOUSER STOCK NO.	Value Range	Price Each				Reel	
		1	25	100	1000	2000	
660-SL1TTE-Code	5m-1.0	.66	.57	.48	.44	.39	
660-SL2TTE-Code	5m-.357	1.01	.88	.74	.68	.61	
660-SL3TTE-Code	5.1m-.357	1.35	1.20	1.05	1.00	.95	
		1	25	100	3000	6000	
660-TSL1TTE-Code	5m-1.0	.90	.88	.85	.78	.75	

Size Code	DIMENSIONS: in. (mm)		
	L	W	H
SL1	.248 ± .012 (6.3 ± .30)	1.22 ± .008 (3.1 ± .20)	.075 ± .008 (1.9 ± .20)
SL2	.453 ± .012 (11.5 ± .30)	.276 ± .008 (7 ± .20)	.098 ± .008 (2.5 ± .20)
SL3	.453 ± .012 (11.5 ± .30)	.276 ± .008 (7 ± .20)	.098 ± .008 (2.5 ± .20)
TSL	.248 ± .012 (6.3 ± .30)	1.22 ± .008 (3.1 ± .20)	.039 ± .008 (1 ± .20)

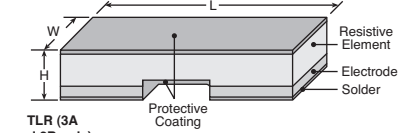
### TABLE OF VALUES

Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *	Value (Ω)	Value Code *
5.1m	5L10F	12.1m	12L1F	39.2m	39L2F	0.1	R100F	0.357	R357F
5.62m	5L62F	13m	13L0F	40.2m	40L2F	0.11	R110F	0.392	R392F
6.04m	6L04F	15m	15L0F	43.2m	43L2F	0.121	R121F	0.432	R432F
6.19m	6L19F	16.2m	16L2F	47.5m	47L5F	0.13	R130F	0.475	R475F
6.8m	6L80F	17.8m	17L8F	50m	50L0F	0.15	R150F	0.51	R510F
7.50m	7L50F	20.0m	20L0F	51.0m	51L0F	0.162	R162F	0.562	R562F
8.00m	8L00F	22.1m	22L1F	56.2m	56L2F	0.221	R221F	0.619	R619F
8.25m	8L25F	23.7m	23L7F	61.9m	61L9F	0.237	R237F	0.68	R680F
9.09m	9L09F	24.3m	24L3F	68.0m	68L0F	0.243	R243F	0.75	R750F
10m	10L0F	26.7m	26L7F	75.0m	75L0F	0.267	R267F	0.825	R825F
11m	11L0F	30.1m	30L1F	82.5m	82L5F	0.301	R301F	0.909	R909F
12m	12L0F	33.2m	33L2F	90.9m	90L9F	0.332	R332F	1	R100F
		35.7m	35L7F						

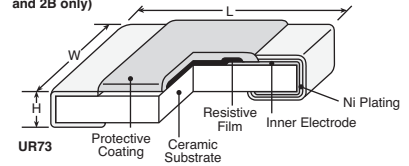
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### TLR AND UR73 SERIES RESISTORS

- Features for TLR:**
- Metal plate current sensing
  - Metal alloy, superior corrosion and heat resistance
  - Applications include current sensing, voltage division and pulse applications
  - Ultra low resistance (1mΩ-20mΩ)
  - Marking: Black body color with marking (3A and 2B only) (3AW: 1mΩ only)



- Features for UR73:**
- Very low resistance, high precision reliability
  - Suitable for reflow and flow soldering
  - Utilization of thick film
  - Low T.C.R. achieved (±100 ppm/°C)
  - Marking: Indigo body color with white marking



Size Code	DIMENSIONS: in. (mm)		
	L	W	H
<b>TLR Series</b>			
TLR3A	.25±.01 (6.35±.25)	.125±.01 (3.18±.25)	.024±.01 (.62±.25)
TLR2B	.126±.008 (3.2±.20)	.063±.008 (1.6±.20)	.024±.008 (.60±.20)
TLR2H	.20±.008 (5±.20)	.10±.008 (2.5±.20)	.024±.008 (.60±.20)
TLR3AW	.25±.01 (6.35±.25)	.125±.01 (3.18±.25)	.024±.01 (.62±.25)
<b>UR73 Series</b>			
2A	.079±.008 (2±.02)	.049±.008 (1.25±.20)	.025±.004 (.65±.10)
2B	.126±.008 (3.2±.20)	.063±.008 (1.6±.20)	.024±.004 (.60±.20)

\* Insert Value Code from Table of Values

MOUSER STOCK NO.	Power Rating	Price Each				Reel
		1	100	1000	5000	
660-UR732ATTD-Code	0.25W	.72	.58	.36	.29	
660-UR732BTD-Code	0.25W	.72	.58	.36	.29	
660-TLR2BD-Code	0.5W	.81	.63	.54	.45	
		1	100	1000	4000	
660-TLR2HD-Code	1W	.86	.71	.67	.52	
		1	100	1000	5000	
660-TLR3ADTE-Code	1W	.94	.65	.48	.40	
660-TLR3AWD-Code	1W	1.06	.63	.56		