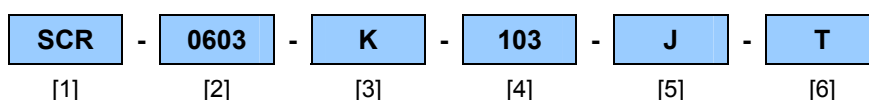


FEATURES

- Extremely thin and light.
- Highly reliable multilayer electrode construction.
- Compatible with all soldering process.
- Highly stable in auto-placement surface mounting applications.
- Barrier layer end termination.
- Zero Ohm Jumper is available.


ORDERING CODE


[1] **Product Type:** SCR

[2] **Size Code:** 0201, 0402, 0603, 0805, 1206, 1210, 2010, 2512

[3] **Resistance Temperature Coefficient Code:** K = $\leq \pm 100 \text{ppm/}^\circ\text{C}$, L = $\leq \pm 100 \text{ppm/}^\circ\text{C}$

[4] **Resistance Value:**

e.g. (E-24)1R0 = 1.0 Ω , 103 = 10K Ω (E-96)1003 = 100K Ω

[5] **Tolerance:** F - $\pm 1\%$; G - $\pm 2\%$; J - $\pm 5\%$; 0 – Chip Jumper

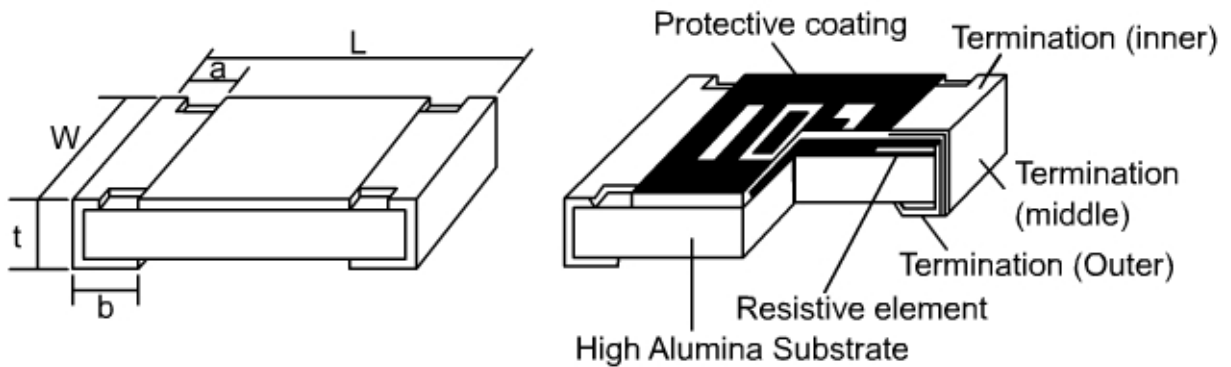
[6] **Packing:** "T" - Tape & Reel

STANDARD RESISTANCE SERIER
E-24 Tolerance $\pm 5\%$ (x 10ⁿ Ω)

1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0
3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.85	7.5	8.2	9.1

E-96 Tolerance $\pm 1\%$ (x 10ⁿ Ω)

1.00	1.02	1.05	1.07	1.10	1.13	1.15	1.18	1.21	1.24	1.27	1.30
1.33	1.37	1.40	1.43	1.47	1.51	1.54	1.58	1.62	1.65	1.69	1.74
1.78	1.82	1.87	1.91	1.96	2.00	2.05	2.10	2.15	2.21	2.26	2.32
2.37	2.43	2.49	2.55	2.61	2.67	2.74	2.80	2.87	2.94	3.01	3.09
3.16	3.24	3.32	3.40	3.48	3.57	3.65	3.74	3.83	3.92	4.02	4.12
4.22	4.32	4.42	4.53	4.64	4.75	4.87	4.99	5.11	5.23	5.36	5.49
5.62	5.76	5.90	6.04	6.19	6.34	6.49	6.65	6.81	6.98	7.15	7.32
7.50	7.68	7.87	8.06	8.25	8.45	8.66	8.87	9.09	9.31	9.53	9.76

■ DIMENSIONS


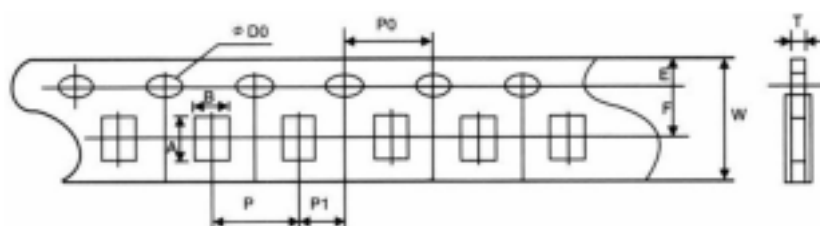
SIZE	L	W	a	b	t
SCR0201	0.60±0.10	0.30±0.05	0.25±0.05	0.15±0.10	0.15±0.10
SCR0402	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
SCR0603	1.60±0.10	0.80±0.10	0.45±0.10	0.25±0.15	0.25±0.15
SCR0805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.20
SCR1206	3.10±0.10	1.60±0.10	0.55±0.10	0.45±0.20	0.40±0.20
SCR1210	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.20	0.50±0.20
SCR2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.20	0.50±0.20
SCR2512	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.20	0.50±0.20

■ ELECTRICAL CHARACTERISTICS

SIZE	0402	0603	0805	1206	1210	2010	2512
Power Rating at 70	1/16W	1/10W	1/8W	1/4W	1/3W	3/4W	1W
Operating Temp. Range	- 55 to + 125						
Derated to 0 load at	+ 125						
Maximum working voltage	25V	50V	150V	200V	200V	200V	200V
Maximum overload voltage	50V	100V	300V	400V	400V	400V	400V
Resistance Range							
±1%, E-96	100Ω ~ 1MΩ			10Ω ~ 1MΩ			
±5%, E-24	2Ω ~ 3.3MΩ			1Ω ~ 10MΩ			
Zero Ohm Jumper <0.05Ω							
Temperature Coefficient	±250ppm/			±100ppm/			
	2Ω ~ 10Ω: ±500ppm /			1Ω ~ 10Ω: ±250ppm/ , >1MΩ: ±200ppm/			

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	1% TOL.	5% TOL.
Temperature Coefficient	MIL-STD-202F, Method 304 - 55 to + 125	By Type	By Type
Thermal Shock	MIL-STD-202F, Method 107 5 cycles, - 55 to + 125	$\pm(0.5\%+0.05\Omega)$	$\pm(1\%+0.05\Omega)$
Low Temperature Operation	MIL-R-55342D, Para.4.7.4 One hour at - 65 followed by 45 minutes RCWV	$\pm(0.5\%+0.05\Omega)$	$\pm(1\%+0.05\Omega)$
Short Time Overload	MIL-R-55342D, Para.4.7.5 2.5 times RCWV for 5 seconds	$\pm(1\%+0.05\Omega)$	$\pm(2\%+0.05\Omega)$
High Temperature Exposure	MIL-R-55342D, Para.4.7.6 125 for 100 hours	$\pm(1\%+0.05\Omega)$	$\pm(2\%+0.05\Omega)$
Resistance to Soldering Heat	MIL-R-55342D, Para.4.7.7 Soldered to test board at 260 for 10 seconds	$\pm(0.5\%+0.05\Omega)$	$\pm(1\%+0.05\Omega)$
Moisture Resistance	MIL-STD-202F, Method 106 10 cycles. Total 240 hours	$\pm(0.5\%+0.05\Omega)$	$\pm(2\%+0.05\Omega)$
Life	MIL-STD-202F, Method 108A 1000 hours at 70 RCWV intermittent	$\pm(1\%+0.05\Omega)$	$\pm(3\%+0.05\Omega)$
Solderability	MIL-STD-202F, Method 208 230 for 5 seconds	95% min. coverage	95% min. coverage
Bending Strength	JIS-C-5202, Para.6.1.4 Unit mounted in center of 90mm board length, Deflected 5mm in either direction for 10 seconds	$\pm(1\%+0.05\Omega)$	$\pm(1\%+0.05\Omega)$

PACKING STYLE
TAPE AND REEL

Packing Quantity

STYLE	TAPE AND REEL						
Size	0402	0603	0805	1206	1210	2010	2512
Quantity(PCS)	10000	5000	5000	5000	4000	4000	4000