



ULTRA LOW OHM METAL STRIP CHIP RESISTORS

TYPE RL73

CONSTRUCTION

Figure 1

Figure 2

FEATURES

- Ideal for all types of current sensing applications
- Ideal for all types of Power Management applications
- Resistance Values from 0.5 to 22 milli Ohms
- Low TCR ±50, ±100 PPM/°C
- High Wattage Rating up to 3W
- Without Laser Trimmed with very low Inductance
- Customized Resistance Available
- Optional spec is available based on customer's requirement

DIMENSIONS

(Unit : mm)

		Mark	EIA	Power Rating	L	W
		2I / 2J	2010	1W / 1.5W	5.1	2.5
		3A / 3B / 3N / 3M	2512	1W / 2W / 2.5W / 3 W	6.3	3.1
SMEC Series	Resistance Range (m Ω)	L	W	T	D	EIA
RL73□3□□□□TF-G	0.5 ~ 0.75	6.35±0.25	3.18±0.35	1.00±0.20	1.93±0.75	2512
RL73□3□□□□TF-G	1.0~22	6.35±0.25	3.18±0.35	0.60±0.20	1.93±0.75	2512
RL73□3□0M50□TF	0.50	6.35±0.25	3.18±0.25	1.40±0.20	1.30±0.30	2512
RL73□3□0M75□TF	0.75	6.35±0.25	3.18±0.25	1.00±0.20	1.30±0.30	2512
RL73□3□R001□TF	1.00	6.35±0.25	3.18±0.25	0.80±0.20	1.30±0.30	2512
RL73□3□1M50□TF	1.50	6.35±0.25	3.18±0.25	0.65±0.20	1.30±0.30	2512
RL73□3□R002□TF	2.00	6.35±0.25	3.18±0.25	0.50±0.20	1.30±0.30	2512
RL73□3□2M50□TF	2.50	6.35±0.25	3.18±0.25	1.00±0.20	1.30±0.30	2512
RL73□3□R003□TF	3.00	6.35±0.25	3.18±0.25	0.70±0.20	1.30±0.30	2512
RL73□3□3M50□TF	3.50	6.35±0.25	3.18±0.25	0.71±0.20	1.30±0.30	2512
RL73□3□R004□TF	4.00	6.35±0.25	3.18±0.25	0.60±0.20	1.30±0.30	2512
RL73□3□4M50□TF	4.50	6.35±0.25	3.18±0.25	0.58±0.20	1.30±0.30	2512
RL73□3□R005□TF	5.00	6.35±0.25	3.18±0.25	0.50±0.20	1.30±0.30	2512
RL73□3□5M50□TF	5.50	6.35±0.25	3.18±0.25	0.47±0.20	1.30±0.30	2512
RL73□3□R006□TF	6.00	6.35±0.25	3.18±0.25	0.50±0.20	1.30±0.30	2512
RL73□3□6M50□TF	6.50	6.35±0.25	3.18±0.25	0.47±0.20	1.30±0.30	2512
RL73□3□R007□TF	7.00	6.35±0.25	3.18±0.25	0.45±0.20	1.30±0.30	2512
RL73□3□R010□TF	10.00	6.50±0.35	3.20±0.25	0.80±0.15	1.90±0.15	2512
RL73□2□□□□TF-G	1.0~10	5.08±0.25	2.54±0.15	0.60±0.20	1.67±0.63	2010
RL73□2□□□□TF-G	1.0~10	3.20±0.25	1.60±0.10	0.60±0.20	0.98±0.38	1206

Note : 10mΩ to 22mΩ E24 series values

STANDARD ELECTRICAL SPECIFICATIONS

SMEC Series	Power Rating at 80°C	Operating Temp. Range	Resistance Tolerance (±%)	Resistance Range (mΩ)	TCR (PPM/°C)	EIA
RL73C3A□□□□TF	1W	-55°C~+170°C	F, H, J (1, 3, 5)	0.5~2.0	50	2512
RL73T3A□□□□TF	1W		F, H, J (1, 3, 5)	2.5~3.0	150	2512
RL73A3A□□□□TF	1W		F, H, J (1, 3, 5)	4.0~5.5	100	2512
RL73P3A□□□□TF	1W		F, H, J (1, 3, 5)	6.0~7.0	75	2512
RL73A3A□□□□TF	1W		F, H, J (1, 3, 5)	10	100	2512
RL73C3A□□□□TF-G	1W		F, H, J (1, 3, 5)	8.0~22	50	2512
RL73C2U□□□□TF-G	1W		F, H, J (1, 3, 5)	1.0~10	50	1206

Operating current $I = \sqrt{P/R}$: Operating Voltage $V = \sqrt{P \cdot R}$



ULTRA LOW OHM METAL STRIP CHIP RESISTORS -- T Y P E R L 7 3

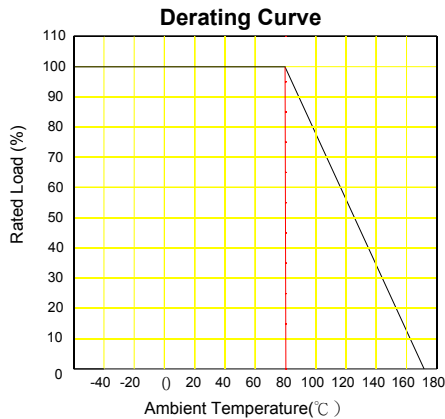
HIGH POWER RATING ELECTRICAL SPECIFICATIONS

SMEC Series	Power Rating at 80°C	Operating Temp. Range	Resistance Tolerance (±%)	Resistance Range (mΩ)	TCR (PPM/°C)	EIA
RL73C3B□□□□TF	2W	-55°C~+170°C	F, H, J (1, 3, 5)	0.5~2.0	50	2512
RL73C3B□□□□TF-G	2W		F, H, J (1, 3, 5)	7.0~15.0	50	2512
RL73C3N□□□□TF-G	2.5W		F, H, J (1, 3, 5)	4.0~6.0	50	2512
RL73P3M□□□□TF-G	3W		F, H, J (1, 3, 5)	3.0	75	2512
RL73C3M□□□□TF-G	3W		F, H, J (1, 3, 5)	1.0~2.0	50	2512
RL73A3M□□□□TF-G	3W		F, H, J (1, 3, 5)	0.5~0.75	100	2512
RL73C2J□□□□TF-G	1.5W		F, H, J (1, 3, 5)	1.0~10	50	2010

Operating current $I=\sqrt{(P/R)}$: Operating Voltage $V=\sqrt{(P*R)}$

CHARACTERISTICS

Item	Specification		Test Method
	Black coating	Green coating	
Temperature Coefficient of Resistance	As Spec		MIL-STD-202F-Method 304 +25/-55/+25/+125/+25°C
Thermal Shock	± 0.5%	± 1%	MIL-STD-202F-Method 107G -55°C~150°C, 100 cycles
Short Time Overload	± 0.5%	± 1%	JIS-C-5202-5.5 5 x rated power' 5 seconds
Resistance to Dry Heat	± 1%	± 1%	JIS-C-5202-7.2 96 hours @+170°C without load
Load Life	± 1%	± 1%	MIL-STD-202F-Method 108A RCWV, 70°C, 1.5 hours on, 0.5 hours off, total 1000~1048 hours
Resistance to Soldering heat	± 0.5%	± 1%	MIL-STD-202F-Method 210E 260±5°C, 10±1 seconds
Solderability	95% min coverage		MIL-STD-202F-Method 208H 245±5°C, 2±0.5 seconds



TAPE PACKAGING

SIZE	Qty/Reel
1206	2000 Pcs
2010	2000 Pcs
2512	2000 Pcs

ULTRA LOW OHM METAL STRIP CHIP RESISTORS -- T Y P E R L 7 3

ORDERING INFORMATION

RL73	C	3A	R001	F	T	F	G
Series	Temperature Coefficient (T.C.) C=±50PPM/°C D=±75PPM/°C A=±100PPM/°C T=±150PPM/°C	Power Rating 2U=1W 2I=1W 2J=1.5W 3A=1W 3B=2W 3N=2.5W 3M=3W	Resistance Value 0M50 = 0.00050Ω 0M75 = 0.00075Ω 1M50 = 0.00150Ω R001 = 0.00100Ω R010 = 0.01000Ω	Tolerance F=±1% H=±3% J=±5%	Tape and Reel	LeadFree/ RoHs	Protective Coating Blank=Black Coating G=Green Coating

