

SLR Series Datasheet

Power Shunt Resistor | Radial Low Inductance and Low Ohmic | Ceramic Case

ORDERING CODE-Example

New SAP Part Nr.:

SLR	500	J	B	-	RD-	1R2	AA
Serie	Power rating	Tol. J = ±5% K = ±10%	Pack-Code B = Bulk	TCR - Base on spec.	Forming type RD- = Radial	R Value	Special AA = Standard

Historical VTM Part Nr.:

SLR5	5	B	1R2
Type	Tol.	Pack-Code	R Value

APPLICATIONS

- Automotive
- Charger
- Alternative Energy
- Power Supply
- Home Appliances
- Industrial

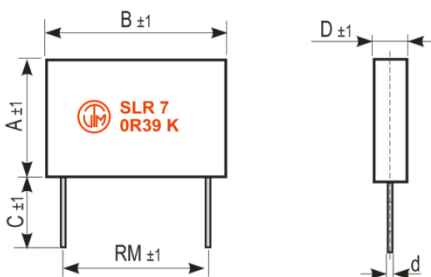
FEATURES

- All welded construction
- Very low inductance
- Excellent frequency response
- RoHs & REACH Compliant

ELECTRICAL SPECIFICATIONS

Type		SLR200	SLR300	SLR5WS	SLR500	SLR7WS	SLR700	SLR10S	SLR10A
Historical Part Number		SLR2	SLR3	SLR5B	SLR5	SLR7B	SLR7	SLR10A	SLR10
Nominal Power Rating P_{70}	[W]	2	3	5	5	7	7	10	10
Resistance Range (Other values upon request)	[Ω] Min	R01	R05	R05	R01	R05	R05	R05	R05
	[Ω] Max	1R	1R	3R3	3R3	3R3	3R3	3R3	3R3
E-Series (Other upon request)	Preferred	E24 = 5% ; E12 = 10%							
Tolerances	±[%]	J = 5% ; K = 10%							
Temperature Coefficient	±[10 ⁻⁶ K ⁻¹]	250							
Working Temperature Range	[°C]	-25 ... +155							
Thermal Resistance	[KW ⁻¹]	43	28	17	17	12	12	9	9
Insulation Resistance <i>IEC60115-1 clause 4.6</i>	[MΩ]	> 10 ⁴							
Max. Working Voltage	[V] _{RMS}	$\sqrt{P_{70} \times R}$							
Dielectric Withstanding Voltage <i>IEC60115-1 clause 4.7 (1[<i>min</i>])</i>	[V] _{RMS}	> 700							

DIMENSIONS [mm]



New P/Nr. Type	Historical P/N:	A	B	C	RM	D	ø d
SLR200	SLR2	8,0	13,0	12,0	9,0	5,0	0,6
SLR300	SLR3	13,0	13,0	12,0	9,0	5,0	0,6
SLR5WS	SLR5B	10,0	26,0	12,0	20,0	5,0	0,8
SLR500	SLR5	18,0	14,0	12,0	10,0	5,0	0,6
SLR7WS	SLR7B	13,0	26,0	12,0	20,0	5,0	0,8
SLR700	SLR7	18,0	26,0	12,0	20,0	5,0	0,8
SLR10S	SLR10A	19,0	26,0	12,0	20,0	5,5	0,8
SLR10A	SLR10	20,0	26,0	12,0	20,0	5,0	0,8

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PERFORMANCE DATA

Type		SLR200	SLR300	SLR5WS	SLR500	SLR7WS	SLR700	SLR10S	SLR10A
Historical Part Number		SLR2	SLR3	SLR5B	SLR5	SLR7B	SLR7	SLR10A	SLR10
Derating Linear	[°C]	70...150 (0W)							
Climatic Category		55/155/21							
Failure Rate <small>(Total, ϑ, max, 60[%] cont. lev.)</small>	[10^{-9} h ⁻¹]	appr. 100 depends on value							
Endurance <small>IEC60115-1 clause 4.25 (P_{70}, @ 70[°C], 1000[h])</small>	±[%]	5							
Damp Heat, Steady State <small>IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</small>	±[%]	5							
Resistance to Soldering Heat <small>IEC60115-1 clause 4.18 (260^{±5}[°C], 10^{±1}[s])</small>	±[%]	1							
Terminal Strength	±[%]	1							
Solderability <small>IEC60068-2-20 (245^{±5}[°C] 3^{±0.5}[s])</small>		Solder bath method (> 95% coverage)							
Marking <small>IEC60062</small>		Printed in clear							

PACKAGING

The standard packaging for SLR in radial type is bulk, dimensions below.



New P/Nr. Type	Historical P/N:	Pieces	Pack Code	Forming Type
SLR200	SLR2	300	B = Bulk	RD- = Radial
SLR300	SLR3	230		
SLR5WS	SLR5B	160		
SLR500	SLR5	180		
SLR7WS	SLR7B	130		
SLR700	SLR7	100		
SLR10S	SLR10A	100		
SLR10A	SLR10	100		