

RGS Series Datasheet

Metal Glaze Film Resistors | Axial |

Hi-temp. solder contacts | Bakelite Moulded

ORDERING CODE-Example

New SAP Part Nr.:

RGS	-50	G	T	-	52-	10R	AA
Serie	Power rating -50 = 0,5W -70 = 0,7W	Tol. D = ±0,5% F = ±1% G = ±2%	Pack-Code T = Tape (ammo pack) or R = Reel	TCR - Base on spec.	Forming type 52- Inner Taping dimension	R Value	Special AA = Standard

Historical VTM Part Nr.:

RG515 - 0	2	T	10R
Type	Tol.	Pack-Code	R Value

RG520 - 0	2	T	10R
Type	Tol.	Pack-Code	R Value

APPLICATIONS

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

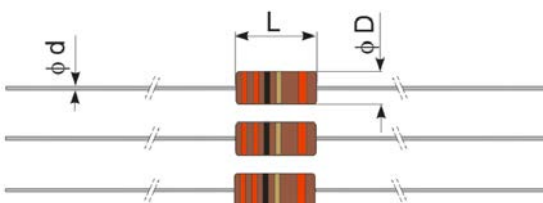
FEATURES

- Other preforming available
- Uninflammable acc. to IEC 60695-2-2
- High insulation voltage
- RoHs & REACH Compliant

ELECTRICAL SPECIFICATIONS

Type		RGS-50	RGS-70
Historical Part Number		RG515-0	RG520-0
Nominal Power Rating P_{70}	[W]	0,5 ($P_{max.} = 0,7$)	0,7 ($P_{max.} = 0,9$)
Resistance Range	[Ω] Min. Max.	R3	
		3M32	
E-Series (preferred)		E24 (1% ; 2%) ; E96 (0,5% ; 1%)	
Tolerances	±[%]	D = 0,5% ; F = 1% ; G = 2%	
Temperature Coefficient	±[10 ⁻⁶ K ⁻¹]	Depends on the value, please check the table below	
Working Temperature Range	[°C]	-65 ... +175	
Thermal Resistance	[KW ⁻¹]	125	100
Insulation Resistance IEC60115-1 clause 4.6	[MΩ]	> 10 ⁴	
Max. Working Voltage	[V] _{RMS}	350	
Dielectric Withstanding Voltage IEC115-1 clause 4.7 (1[min])	[V] _{RMS}	1000	

DIMENSIONS [mm]



Type	Historical P/N:	L ±0,2	Ø D ±0,2	Ø d ±0,02
RGS-50	RG515 - 0	6,4	2,3	0,65
RGS-70	RG520 - 0	8,0	3,2	0,65

RGS Series Datasheet

PERFORMANCE DATE

Type		RGS-50	RGS-70
Historical Part Number		RG515-0	RG520-0
Derating Linear	[°C]	70...175 (0W)	
Climatic Category		55/155/56	
Voltage Coefficient <i>IEC60115-1 clause 4.11</i>	[10 ⁻⁶ V ⁻¹]	< 30	
Failure Rate <i>(Total, 90, max, 60[%] cont. lev.)</i>	[10 ⁻⁹ h ⁻¹]	1	
Endurance <i>IEC60115-1 clause 4.25 (P₇₀ @ 70[°C], 1000[h])</i>	±[%]	0,5	
Damp Heat, Steady State <i>IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i>	±[%]	1,0	
Climatic Sequence <i>IEC60115-1 clause 4.23</i>	±[%]	1,0	
Resistance to Soldering Heat <i>IEC60115-1 clause 4.18 (260^{±5}[°C], 3,5^{±1}[s])</i>	±[%]	0,1	
Terminal Strength	±[%]	0,2	
Terminal Tensile Strength	[N]	40	
Solderability <i>IEC60068-2-20 (245^{±5}[°C] 3^{±0,5}[s])</i>		Solder bath method (> 95% coverage)	
Current Noise <i>IEC60195</i>	[dB]	R <1K: -20 ; R > 1K ± 20/decade	
Nonlinearity <i>IEC60440</i>	[dB]	110 -20 /decade	
Marking <i>IEC60062</i>		Color code (6 th band for TC ; < 1R 4 bands)	

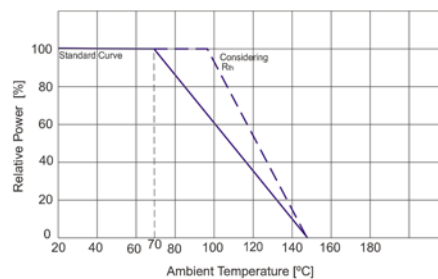
TEMPERATURE COEFFICIENT

Resistance range	Tolerance	TCR	E-Series
R3 ... 3M3	± 2%	± 100 ppm/K *	E24
R3... 9R1	± 1%		
10R... 3M32	± 1%	± 50 ppm/K	E24 / E96
10R... 1M	± 0,5%		E96

* R <1R TC200

DERATING CURVE & TEMPERATURE RISE

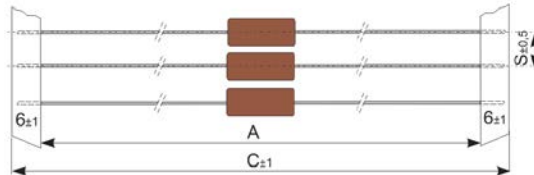
Derating Curve



RGS Series Datasheet

PACKAGING

The standard packaging for RGS in axial type is taped, dimensions below.



Type	Historical P/N:	Pack Code	Pieces	Forming Type (Inner Taping dim.)	A	C	S
RGS-50	RG515 - 0	T = Taped Ammo pack	1000	52-	52	65	5
		R = Reel	5000				
RGS-70	RG520 - 0	T = Taped Ammo pack	1000				
		R = Reel	5000				

ALTERNATIVE LEAD CONFIGURATIONS

This type RGS is also available in a different pre-forming, as shown below, other's upon request.

THOUGH HOLE VERSION

Axial Goal Post (AG-)	Axial Goal Post Kink (AK-)	Radial (RD-)	Radial 2 Kink (RK-)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Wirewound Resistors - Through Hole](#) category:

Click to view products by [Vitrohm](#) manufacturer:

Other Similar products are found below :

[75822-2K4](#) [90J56R](#) [AC03000001208JAC00](#) [EP3WS47RJ](#) [C1010KJL](#) [C1015RJL](#) [C3A10KJT](#) [27J1K0](#) [ES3W47RJ](#) [AC04000001500JAC00](#)
[AC10000002208JAB00](#) [AC10000004708JAB00](#) [SQMW5R39J](#) [SQPW5R22J](#) [SQPW5R33J](#) [1879927-3](#) [FCB2100RJ](#) [T505](#) [FSQ5WR47J](#)
[FW10A33R0JA](#) [CPCC03R5000JB31](#) [CPCC0510R00JE32](#) [CPCC051R000JB31](#) [CPCP10500R0JE32](#) [CPW05700R0JE143](#)
[CPW152K500JE313](#) [C1010RJL](#) [C10R47JL](#) [C141K0JL](#) [C144R7JL](#) [ES05W100RJ](#) [SQMW1047RJ](#) [SQMW210RJ](#) [CPCC03R2000JB31](#)
[CPCC0515R00JE01](#) [CPW055R000JB143](#) [CPW103K300JE143](#) [CPW202R000JB14](#) [ULW5-39R0JT075](#) [W31-R47JA1](#) [ULW5-68RJT075](#)
[SQBW401K0JFASTON](#) [SPH1001JLF](#) [65888-3R3](#) [CPCC10R5100JE66](#) [SQP500JB-400R](#) [SQBW403R3JFASTON](#) [280-PRM7-4.7-RC](#)
[CW02B9R100JE73](#) [CPCP05R1000JE32](#)