



RGU Series Datasheet

Metal Glaze Film Resistors | Radial |

Hi-temp. solder contacts | Bakelite Moulded

ORDERING CODE-Example

New SAP Part Nr.:

RGU	-50	G	B	-	RD-	10R	AA
Serie	Power rating	Tol.	Pack-Code	TCR	Forming type	R Value	Special
	-50 = 0,5W	D = ±0,5% F = ±1% G = ±2%	B = Bulk	- Base on spec.	RD- = Radial		AA = Standard

Historical VTM Part Nr.:

RGU526 - 0	2	T	10R
Type	Tol.	Pack-Code	R Value

APPLICATIONS

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

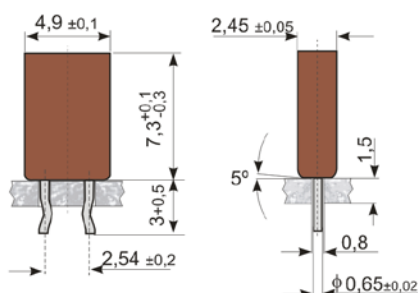
FEATURES

Unflammable acc. to IEC 695-2-2
High insulation voltage
RoHs & REACH Compliant

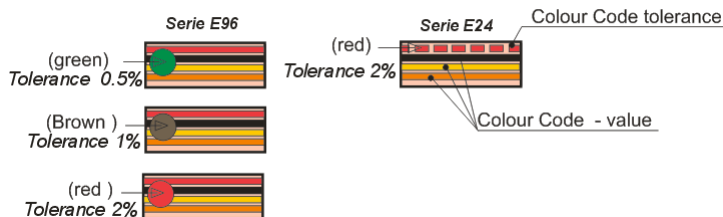
ELECTRICAL SPECIFICATIONS

Type		RGU-50
Historical Part Number		RGU526-0
Nominal Power Rating P_{70}	[W]	0,5
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]	-55 ... +175
Thermal Resistance	[KW^{-1}]	90
Insulation Resistance IEC60115-1 clause 4.6	[$M\Omega$]	> 10^4
Max. Working Voltage	[V] _{RMS}	350
Dielectric Withstanding Voltage IEC115-1 clause 4.7 (1[min])	[V] _{RMS}	1000

DIMENSIONS [mm]



Color code examples:



NOTE: To read the value, put the dot the left side and read from down side to upside

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PERFORMANCE DATE

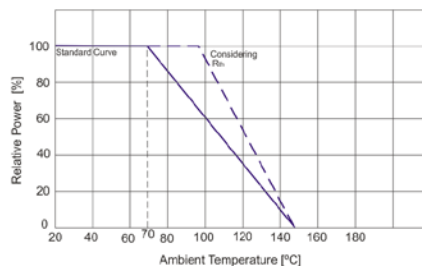
Type		RGU-50
Historical Part Number		RGU526-0
Derating Linear	[°C]	70...175 (0W)
Climatic Category		55/155/56
Voltage Coefficient IEC60115-1 clause 4.11	[10 ⁻⁶ V ⁻¹]	< 30
Failure Rate (Total, ϑ_o , max, 60[%] cont. lev.)	[10 ⁻⁹ h ⁻¹]	< 1
Endurance IEC60115-1 clause 4.25 ($P_{70\%}$ @ 70[°C], 1000[h])	±[%]	0,5
Damp Heat, Steady State IEC60115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])	±[%]	1,0
Climatic Sequence IEC60115-1 clause 4.23	±[%]	1,0
Resistance to Soldering Heat IEC60115-1 clause 4.18 (260 ^{±5} [°C], 3.5 ^{±1} [s])	±[%]	0,1
Terminal Strength	±[%]	0,2
Terminal Tensile Strength	[N]	40
Solderability IEC60068-2-20 (245 ^{±5} [°C] 3 ^{±0,5} [s])		Solder bath method (> 95% coverage)
Current Noise IEC60195	[dB]	R < 1K: -20 ; R > 1K ± 20/decade
Nonlinearity IEC60440	[dB]	110 -20 /decade
Marking IEC60062		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



PACKAGING

The standard packaging for RGU in Radial type is Bulk, dimensions below.



Type	Historical P/N:	Pack Code	Pieces
RGU-50	RGU526 - 0	B = Bulk	1000