

DATA SHEET

LEADED POWER RESISTORS

RG, RGU – High reliability metalglazed

0.5 W AND 0.9 W



Product Specification – Jun. 18, 2003 V.0



Series RG

Metalglaze film resistors
axial, hi-temp.-solder contacts, moulded
uninflammable acc. to IEC 695-2-2

Specification

Type		RG515-0	RG520-0
Style		0207	0309
Power rating P_{70}	W	0,5 ($P_{max.} = 0,7$)	0,7 ($P_{max.} = 0,9$)
Resistance range	Ω	see Page 2	
E-series		see Page 2	
Tolerance	%	see Page 2	
Temperature coefficient	$10^{-6} * K^{-1}$	see Page 2	
max. cont. working voltage	V_{RMS}	350	
Voltage coefficient	$10^{-6} * V^{-1}$	< 30	
Insulation voltage (1min.)	V_{RMS}	1000	
Insulation resistance	$M\Omega$	> 10^4	
Derating	$^{\circ}C$	linear 70 ... 155 (0W)	
Climatic category		55/155/56	
Temperature range	$^{\circ}C$	-65 ... 175	
Thermal resistance	KW^{-1}	125	100
Failure rate (Total, ϑ_0 max., 60% conf. lev.)	$10^{-9} h^{-1}$	< 1	
Endurance (P_{70} , @ 70 $^{\circ}C$, 1000h, interm.)	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 0,5$	
Damp heat, steady state (40 $^{\circ}C$, 93% r.h., 56d)	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 1,0$	
Climatic sequence	$\left[\frac{\Delta R}{R} \right]$ %	$\pm 1,0$	

Series RG

Metalglaze film resistors

axial, hi-temp.-solder contacts, moulded

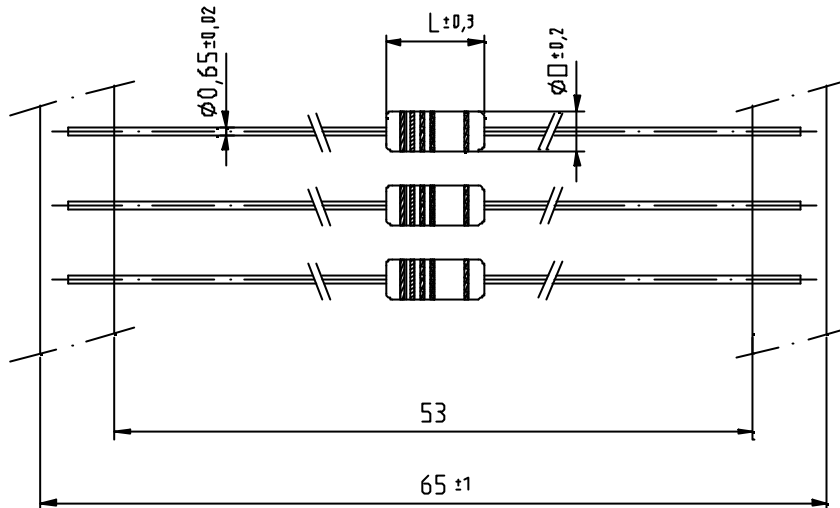
uninflammable acc. to IEC 695-2-2

Type		RG515-0	RG520-0
Terminal strength	$\left[\frac{\Delta R}{R} \right] \%$		± 0,2
Terminal tensile strength	N		40
Solderability	s	2,5 Flowtime, Solderglobule test, IEC-60068-2-20-T	
Resistance to soldering heat (260°C, 10s)	$\left[\frac{\Delta R}{R} \right] \%$		± 0,1
Current noise (DIN/IEC 195)	dB		R<1K0: -20 R>1K0: ± 20/decade
Nonlinearity (DIN/IEC 440)	dB		110 - 20/decade
Marking		Colour code: 5 resp. 6 bands (6th. band for TC)	

Resistance range	E-series	Tolerance	Temperature coefficient 10^{-6} K^{-1}
0R3 ... 3M3	E 24	± 2%	100 (T0) *
0R3 ... 9R1	E 24	± 1%	100 (T0) *
10R ... 3M32	E 96	± 1%	50 (T2)
10R ... 1M	E 96	± 0,5%	25 (T9)
* R < 1R0: TC 200			

Series RG
Metalglaze film resistors
axial, hi-temp.-solder contacts, moulded
uninflammable acc. to IEC 695-2-2

Dimensions in mm:



Type	L	ϕD
RG515-0	6,4	2,3
RG520-0	8,0	3,2

Packaging:

Type	Packaging	Pieces	Pack.-Code
RG515-0	taped/Ammopack	1000	T
	taped/reel	5000	R
RG520-0	taped/Ammopack	1000	T

Ordering example:

RG 515-0 1 T 1K0
Type Tolerance Pack.-Code R-Value

**Metalglaze Film Resistors, moulded, vertical
unflammable acc. to IEC 695-2-2**

Specification

Type		RGU526-0
Style		04
Power rating P_{70}	W	0,5
Resistance range	Ω	see Page 2
E-series		see Page 2
Tolerance	%	see Page 2
Temperature coefficient	$10^{-6} * K^{-1}$	see Page 2
max. cont. working voltage	V_{RMS}	350
Voltage coefficient	$10^{-6} * V^{-1}$	< 30
Insulation voltage (1min.)	V_{RMS}	1000
Insulation resistance	$M\Omega$	>10 ⁴ except top surface
Derating linear		see Page 2
Climatic category		55/155/56
Temperature range	$^{\circ}C$	-55 ... 175
Thermal resistance	KW^{-1}	90
Failure rate (Total, ϑ_0 max., 60% conf. lev.)	$10^{-9} * h^{-1}$	< 1
Endurance (P_{70} , @ 70°C, 1000h, interm.)	$\left[\frac{\Delta R}{R} \right]$ %	± 0,5
Damp heat, steady state (40°C, 93% r. h., 56d)	$\left[\frac{\Delta R}{R} \right]$ %	± 1,0
Climatic sequence	$\left[\frac{\Delta R}{R} \right]$ %	± 1,0

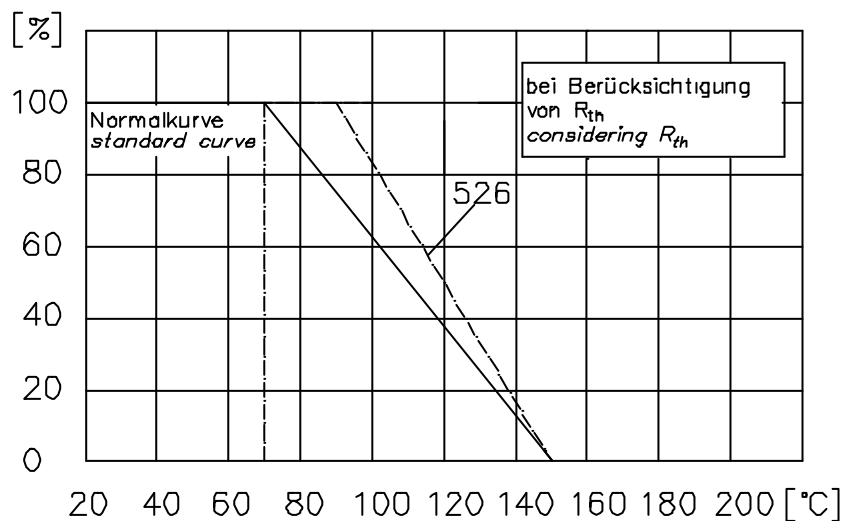
Series RGU

Metalglaze Film Resistors, moulded, vertical unflammable acc. to IEC 695-2-2

Type		RGU526-0
Terminal strength	$\left[\frac{\Delta R}{R} \right] \%$	± 0,2
Terminal tensile strength	N	40
Resistance to soldering heat (260°C, 10s)	$\left[\frac{\Delta R}{R} \right] \%$	± 0,1
Solderability	s	2,5 Flowtime, solderglobule test, IEC 60068-2-20-T
Current noise (DIN/IEC 195)	dB	R < 1K0: -20 R > 1K0: -20 +20 /decade
Nonlinearity (DIN/IEC 440)	dB	110 - 20 /decade
Marking		DIN-IEC-Colour code; 4 resp. 5 Colors

Resistance range	E-series	Tolerance	TC ppm/K
0R3 ... 3M3	E 24	± 2%	100 (T0) *
10R ... 3M32	E 96	± 1%	50 (T2)
10R ... 1M	E 96	± 0,5%	25 (T9)
* R < 1R0: TC 200			

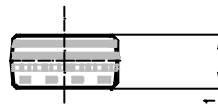
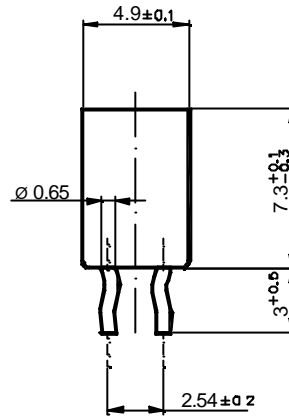
Derating:



Series RGU

Metalglaze Film Resistors, moulded, vertical unflammable acc. to IEC 695-2-2

Dimensions in mm:



RGU526-0

Packaging:

Type	Packaging	Pieces	Pack.-Code
RGU526-0	bulk	100	B

Ordering example:

RGU 526-0	1	B	1K
Type	Tolerance	Pack.-Code	R-value