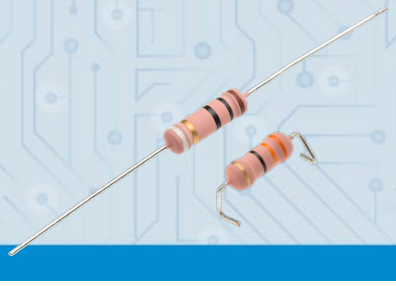
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GFV Series Datasheet

Metal Glaze Film Resistors | Axial and SMD Version
High ohmic / High voltage | Flameproof coating

ORDERING CODE - Example

New SAP Part Nr.:

GFV	100	J	T	G	73-	10K	AA
Serie	Power rating	Tol.	Pack-Code	TCR	Forming type	R Value	Special
		F = ±1% **J** = ±5%	**T** = Tape on Box	**G** = ±200ppm	**52-** Inner Taping dimension or **73-** Inner Taping dimension or **ZB-** Z version		**AA** = Standard

Historical VTM Part Nr.:

GF0512	5	T	10K
Type	Tol.	Pack-Code	R Value

RZV3	6720	J	K	-	13	10K
Type	Size	Tol.	K = Blister tape reel	TC	Reel diam.	R Value

APPLICATIONS

- Industrial
- Consumer & Electronics

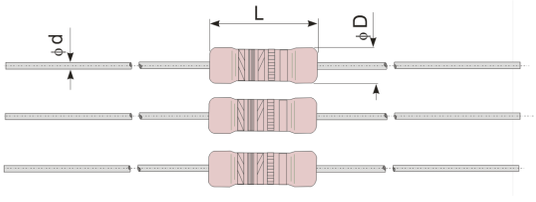
FEATURES

- High voltage
- High pulse loading capability
- "Z" preforming ; Other preforming available
- RoHs & REACH Compliant

ELECTRICAL SPECIFICATIONS

Type			GFV-25	GFV-50	GFV100	GFV200	GFV300
Historical Part Number		AXIAL	GF0207	GF0410	GF0512	-	GF0616
		SMD	RZV1	RZV2	RZV3	-	RZV4
Nominal Power Rating	P_{70}	[W]	0,25	0,5	1,0	2,0	3,0
Resistance Range		[Ω]	100K ... 68M (Other values upon request)				
E-Series			E24 , E96 (E24 / E96 1% ; E24 5%)				
Tolerances		±[%]	F = 1% ; J = 5%				
Temperature Coefficient		$\pm[10^{-6*}K^{-1}]$	G = 200				
Working Temperature Range		[ºC]	-55 ... +155				
Max. Overload Voltage		$[V]_{RMS}$	3000	7000	10000	14000	
Max. Working Voltage		$[V]_{RMS}$	1600	3500	5000	7000	
Dielectric Withstanding Voltage IEC115-1 clause 4.7 (1[min])		$[V]_{RMS}$	500	500	700		

DIMENSIONS [mm]



Type	*Historical P/N:*	*L*	*Ø D*	*Ø d*
GFV-25	GF0207	$6,3^{\pm0,5}$	$2,4^{\pm0,2}$	$0,55^{\pm0,05}$
GFV-50	GF0410	$9,0^{\pm0,5}$	$3,3^{\pm0,3}$	$0,55^{\pm0,05}$
GFV100	GF0512	$11,5^{\pm1,0}$	$4,5^{\pm0,5}$	$0,80^{\pm0,05}$
GFV200	-	$15,5^{\pm1,0}$	$5,0^{\pm0,5}$	$0,80^{\pm0,05}$
GFV300	GF0616	$15,5^{\pm1,0}$	$5,0^{\pm0,5}$	$0,80^{\pm0,05}$

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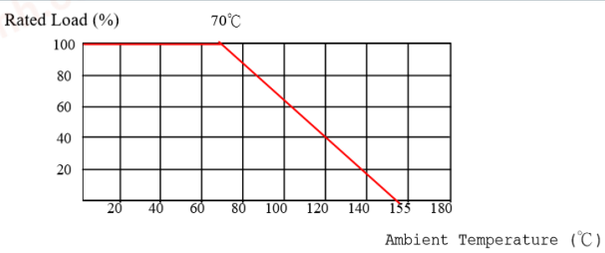
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GFV Series Datasheet

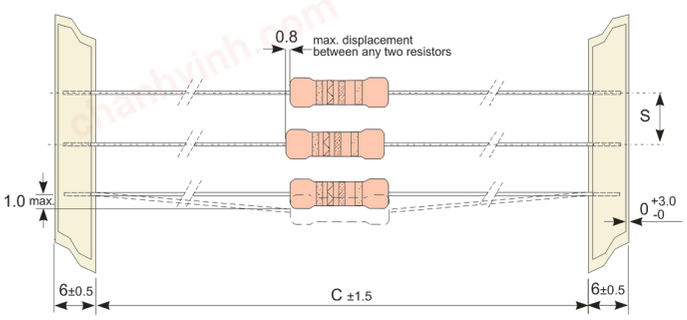
PERFORMANCE DATA

Type		GFV-25	GFV-50	GFV100	GFV200	GFV300
Historical Part Number	AXIAL	GF0207	GF0410	GF0512	-	GF0616
	SMD	RZV1	RZV2	RZV3	-	RZV4
Derating Linear	[ºC]	70...155 (0W)				
Climatic Category		55/155/56				
Max. Cont. Surface Temperature	[ºC]	155				
Short Time Overload *IEC60115-1 clause 4.13*	±[%]	2,0				
Endurance *IEC60115-1 clause 4.25* *(P_{70}, @ 70[°C], 1000[h])*	±[%]	5,0				
Damp Heat, Steady State *IEC60115-1 clause 4.24* *(40[°C], 93[% r.h.], 56[d])*	±[%]	5,0				
Thermal Shock *IEC60115-1 clause 4.19* *(-55 ~ 150[°C], 3[min] , 100 cycles)*	±[%]	1,0				
Resistance to Soldering Heat *IEC60115-1 clause 4.18* *($350^{\pm5}$[°C], $3^{\pm1}$[s])*	±[%]	1,0				
Terminal Tensile Strength	[N]	50				
Solderability *IEC60068-2-20* *($245^{\pm5}$[ºC] $3^{\pm0,5}$[s])*		Solder bath method (> 95% coverage)				
Marking *IEC60062*		Color code				

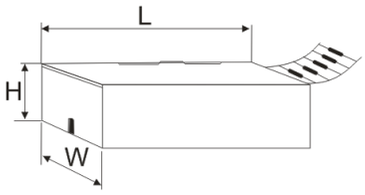
DERATING CURVE



PACKAGING



Tape on Box:



Type	Historical P/N:	Pack Code	Pieces	Forming Type (Inner Taping dim.)	C	S	Box dimensions W	H	L
GFV-25	GF0207	**T** = Taped Ammo pack	5000	52-	52	5	81	104	260
GFV-50	GF0410		1000				73	45	
GFV100	GF0512		1000				103	78	
GFV200	-		1000	73-	73	10		94	
GFV300	GF0616		1000	73-	73	10			

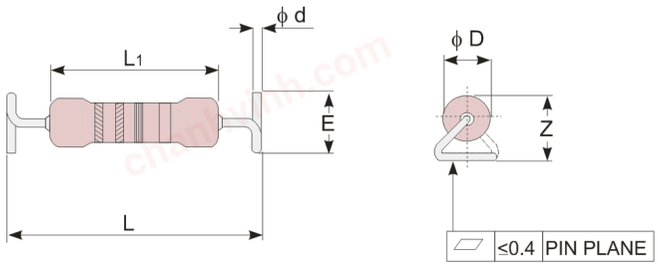
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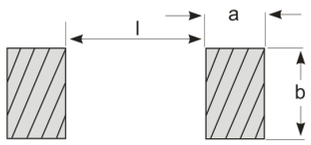
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GFV Series Datasheet

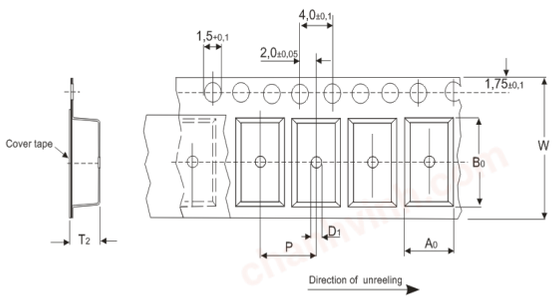
SMD LEAD CONFIGURATIONS



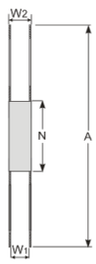
SOLDER PAD

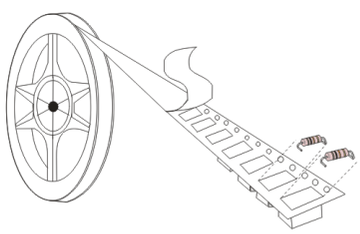


Type	Historical P/N	Size	L	L_1	Ø D	Ø d	E	Z max	l	a	b
GFV-25	RZV1	5315	13,4±0,5	6,3 ±0,5	2,4 ±0,2	0,55 ±0,05 ±0,05	5,0±0,5	7,0	10	10	10
GFV-50	RZV2	6720	17,0±1,0	9,0 ±0,5	3,3 ±0,3	0,55 ±0,05		7,5	14		
GFV100	RZV3	6720		11,5 ±1,0	4,5 ±0,5	0,80 ±0,05					
GFV200	-	-	20,9±1,0	15,5 ±1,0	5,0 ±0,5	0,80 ±0,05					
GFV300	RZV4	8424	20,9±1,0	15,5 ±1,0	5,0 ±0,5	0,80 ±0,05		8,0	16		









Type	A0	B0	W	D1	P	T2
GFV-25	5,0	13,7	24	2,0	8	7,2
GFV-50 GFV100	5,7	16,7	24	2,0	8	7,6
GFV200 GFV300	6,0	21,4	32	2,0	12	8,1

Type	W1	W2	N	A
GFV-25 GFV-50 GFV100	25,4	29,5	90	330
GFV200 GFV300	33,4	37,4	100	380

Type	Packaging	Pieces
GFV-25 GFV-50 GFV100	13(inch) Blister tape	1000
GFV200 GFV300	15(inch) Blister tape	

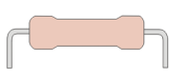
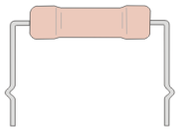
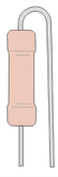
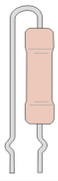
Ordering Code for SMD :

GFV	100	J	K	-	ZB-	10K	AA
Serie	Power rating	Tol.	Pack-Code	TCR	Forming type	R Value	Special
		J = ±5%	**K** = Blister Tape Reel	- Base on spec.	**ZB-** Z version		**AA** = Standard

ALTERNATIVE LEAD CONFIGURATIONS

This type GFV 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-)

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