HDK

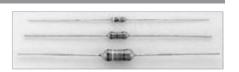
Paint Insulated Glazed Metal Film Fixed Resistors

HMGL Type

Feature

Glazed metal film resistor "HMGL" series with high resistance.

"HMGL" series are suitable for circuit protection for surges.



■Power Rating

Т	Power	Max.	Resistance Rangel Q 1				Rating	Operating		
Туре	Rating	Working	Overload	T.C.R.		Talara	naa[0/]		Ambient	Temp.
		Voltage	tage Voltage Tolerance[%]				Temp.	Range		
	[W]	[V]	[V]		±0.5	±1.0	±2.0	±5.0	[°C]	[°C]
HMGL1/4	0.25	250	500	$A(\pm 100 \text{ppm/}^{\circ}\text{C})$	100k ~ 10M	100k ∼ 10M	100k ~ 10M	100k ∼ 10M		
THVIOL 174	0.23	230	300	$B(\pm 250 ppm/^{\circ}C)$	100k ∼ 10M	100k∼50M	100k ~ 50M	100k ∼ 50M		
HMGL1/2	0.5	500	1000	$A(\pm 100 \text{ppm/}^{\circ}\text{C})$	100k ∼ 10M	100k ∼ 30M	100k ~ 30M	100k ∼ 30M	+70	-55 ~ +125
THVIOL 1/2	0.5	300	1000	$B(\pm 250 ppm/^{\circ}C)$	100k ∼ 10M	100k∼50M	100k ~ 50M	100k ∼ 100M	170	-55~1125
HMGL 1	1.0	750	1500	A(±100ppm/℃	100k~10M	100k~50M	100k∼50M	100k∼100M		
TIMOL I	1.0	730	1300	$B(\pm 250 ppm/^{\circ}C$	100k ∼ 10M	100k ∼ 50M	100k∼50M	100k ∼ 500M		

 \bigstar Rated Voltage: $\sqrt{P^*R}$ (P=Rated power (W), R=Nominal resistance(Ω)) Rated Voltage shall be either the calculated rated voltage or Max. Working Voltage whichever less.

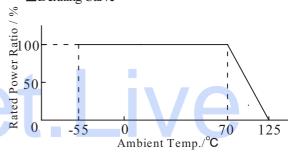
■ Dimensions



☆Body color : Brown

Type	Dimensions(mm)					
Туре	L	D	1	d		
HMGL1/4	6.4±0.8	2.3 ± 0.5	27min.	0.6 ± 0.1		
HMGL1/2	9.5±1.0	3.5 ± 1.0	38±3	0.65 ± 0.1		
HMGL 1	14.2 ± 1.6	4.8 ± 1.0	38±3	1.0 ± 0.1		

■ Derating Curve



■ Type Designation

 $\frac{\text{HMGL}}{1}$ $\frac{1/4}{2}$ $\frac{A}{3}$ $\frac{10\text{M}\Omega}{4}$ $\frac{F}{5}$ $\frac{\text{TU}}{6}$

		~ 1 1	\			
		Symbol	Meaning			
			PAINT INSULATED FIXED			
1	Type	HMGL	GLAZED MET AL FILM			
			RESISTORS			
		1/4	0.25W			
2	Power Rating	1/2	0.5W			
		1	1.0W			
3	T.C.R.	A	± 100 ppm/°C			
<u> </u>	1.0.10.	В	± 250 ppm/°C			
	Resistance	10M Ω	Standard Resistance			
			E-24, E-96 Series			
4		For detail description about resistance marking,				
		please refer to "General Specifications."				
		D	±0.5%			
(5)	Tolerance	F	±1.0%			
9		G	±2.0%			
		J	±5.0%			
		No Marking	Bulk			
	Forming,	TU.TP	Axial Taping			
6	· · · · · · · · · · · · · · · · · · ·	RP	Radial Taping			
	Packaging	For detail description about forming and taping specification, please refer to Taping Specification page in "General Specifications."				

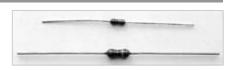


High Voltage Glazed Metal Film Fixed Resistors

HVLType

Feature

Glazed metal film resistor "HVL" are suitable for high voltage circuits.

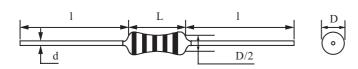


■Power Rating

Туре	Power Rating	Max. Working Voltage	Resistance Range	Tolerance	T.C.R.	Rating Ambient Temp.	Operating Temp. Range
	[W]	[V]	[Ω]	[%]	[ppm/°C]	[°C]	[°C]
HVL1/4	0.25	D.C.1600 A.C.1150	100k ∼ 50M	±1.0 +2.0	+200	+70	-55 ~ +125
HVL1/2	0.50	D.C.3500 A.C.2500	100k~100M	_	±200	170	-33~1123

 $Rated Voltage: PR (P=Rated power (W), R=Nominal resistance (\Omega))$ Rated Voltage shall be either the calculated rated voltage or Max. Working Voltage whichever less.

■ Dimensions



AMarking: $G(\pm 2.0)$, $J(\pm 5.0)$ are 4 color code lines

☆Body color:::Brown

■Derating Cu	ırve				
. Ratio /%					
of tigi				_	
\frac{1}{2} \ldot \frac{1}{2} \dot \frac	ı			1	
Rated Power	1			; \	
50	1			\	
atec	i			. /	
≃ 0	-55	0	7	0 125	5
		Ambier	nt Temp./°C		

Type	Dimensions(mm)					
1 ypc	L	D	1	d		
HVL1/4	6.4 ± 0.8	2.3 ± 0.5	27min.	0.6 ± 0.1		
HVL1/2	9.5 ± 1.0	3.5 ± 1.0	38±3	0.65 ± 0.1		

■ Type Designation

 $\begin{array}{c|ccccc} \underline{HVL} & \underline{1/4} & \underline{10M\Omega} & \underline{F} & \underline{TU} \\ \hline (1) & (2) & (3) & (4) & (5) \end{array}$

(1) (2) (3)	(4) (5)					
		Symbol	Meaning				
			HIGH VOLT AGE FIXED				
1	Туре	HVL	GLAZED METAL FILM				
			RESIST ORS				
2	Power Rating	1/4	0.25W				
	1 ower Rating	1/2	0.5W				
		10M Q	Standard Resistance				
3	Resistance		E-24,E-96 Series				
	Resistance	For detail description about resistance marking,					
		please refer to "General Specifications."					
		F	<u>±</u> 1.0%				
4	Tolerance	G	±2.0%				
		J	<u>±</u> 5.0%				
		No Marking	Bulk				
	Forming,	TU,TP	Axial Taping				
5	Packaging	RP	Radial Taping				
	1 ackaging	For detail description about forming and taping					
		1	ation, please refer to Taping Specification 'General Specifications."				