THUNDER PRECISION RESISTORS

BS EN ISO9001:2015 FM51927

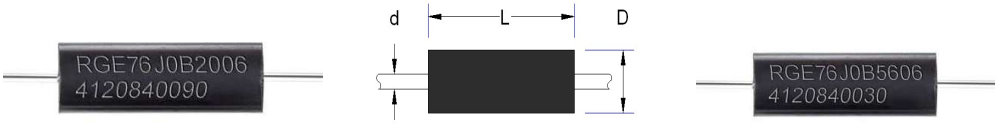
ULTRA HIGH WORKING VOLTAGE, HIGH OHM VALUE 模压型超高工作电压

METAL GLAZE FILM RESISTORS，MOLD TYPE 金属釉膜电阻器

Quick reference data 技术参数

Thunder's type		RGE74	RGE75	RGE76		雷域型号
DIN-44061 type		0414	0617	0719		德国工业标准型号
VISHAY' type		VR37	VR68			Vishay 公司型号
CADDOCK' type		MG660	MG710	MG721		Caddock 公司型号
PRP' type		HV1/2	HV 1	HV 2		PRP 公司型号
HYMEG' type		HA-60	HA-65	HA-70		HYMEG 公司型号
TEPRO' type		TVH.5	TVH.75			TEPRO 公司型号
IRC' type		CGH-1/2/RG20	CGH-1	CGH-2		IRC/TT 公司型号
OHMITE' type		MOX300				OHMITE 公司型号
EBG' type		RSX1/10	OGP 13	OGP 26		EBG 公司型号
Resistance range		1kΩ to 1GΩ	1kΩ to 1GΩ	1kΩ to 2GΩ		阻值范围
Resistance tolerance		D(±0.5%); F(±1%); J(±5.0%); K(±10%)				精度
Temperature coefficient		±25ppm/℃; ±50ppm/℃; ±100ppm/℃; ±200ppm/℃				温度系数
Rated dissipation, P_{70}		0.50W	1.0W	2.0W		70℃以下功率
Max. operating voltage U_{max}		3500V_{DC}	7000V_{DC}	7000V_{DC}	U_{max}	最大工作电压
Max. short time over load voltage		5000V_{DC}	7000V_{DC}	7000V_{DC}		最大短时间过载电压
		$U=2.5\times\sqrt{P_{70}\times R}\leqslant 2U_{max}$; 5s on and 45s off,10 cycles; $\triangle R/R_{max}\leqslant 0.5\%$				
Operating Temperature range		-55℃ ~155℃				工作温度范围
Insulation voltage		1000V	1000V	2000V		绝缘耐压
Insulation resistance		＞1GΩ				绝缘阻抗
Endurance		50kΩ to 22M	50kΩ to 22M	50kΩ to 22M		耐久性实验
Max, resistance change at P_{70}		≤1.5%				最大允许阻值变化量
$\triangle R/R_{max}$, after 1000h					$\triangle R/R_{max.}$	1000小时后
$\triangle R/R_{max}$, after 8000h		≤5%			$\triangle R/R_{max.}$	8000小时后
Damp heat,steady state		0.01xP_{70}, less than 100V_{DC}; 40±2℃; 56 days, 90~95% RH; $\triangle R/R_{max}\leqslant 1.5\%$				稳态湿热
Noise		≤0.5μV/V				噪声
Rapid change of temperature		30 minutes at -55℃; 30 minutes at +155℃; 5 cycles; $\triangle R/R_{max}\leqslant 0.5\%$				温度快速变化
Dimension	Max. (mm)	L=10, D=3.7	L=14.8, D=5.2	L=18.3, D=6.5	Max. (mm)	外型尺寸
	±0.10(mm)	d=0.6	d=0.8	d=0.8	±0.10(mm)	

Outlook 外观



Unless otherwise specified, all values are tested at the following condition: Temperature: 21 ℃ to 25 ℃; Relative humidity: 45% to 60%

标准测量环境温度为 21℃ ~ 25℃; 相对湿度为: 45% ~ 60%