

HVD型高压分压器、高精度、低TC (High Voltage Dividers and Resistors Type HVD High Precision, Low TC)



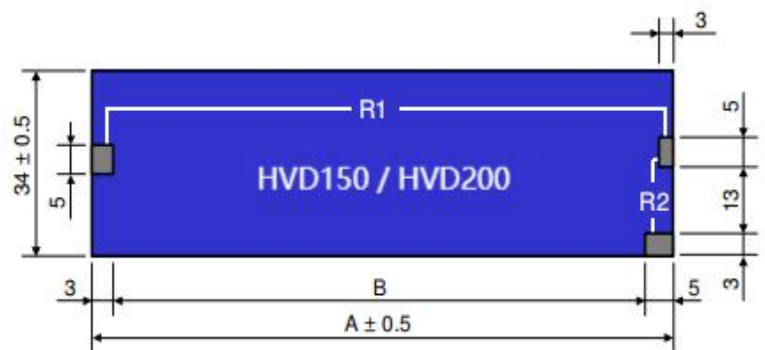
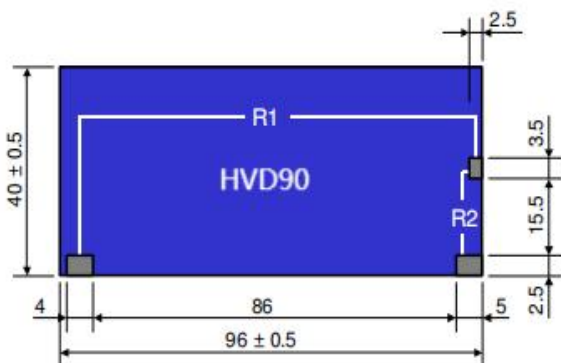
1, HVD型精密高压分压器和电阻器将Nicom Electronic先进的专有高压电阻器技术扩展到比市场上以前更大的设备。这些新型电阻器和分压器提供了紧密的比率温度系数和紧密的比率公差,并结合了极高的工作电压。这些规范可以在许多类型的先进电子系统中提供重要的性能改进,包括行波管电源、雷达系统、X射线系统、分析设备和高分辨率CRT显示器。

Precision High Voltage Dividers and Resistors Type HVD extend Nicom Electronic's advanced proprietary high voltage resistor technology to larger devices than have previously been available on the market. These new resistors and dividers provide tight ratio temperature coefficients and tight ratio tolerances combined with extremely high working voltage. These specifications can provide important improvements in performance in many types of advanced electronic systems, including TWT power supplies, radar systems, X-ray systems, analytical equipment and high resolution CRT displays.

2、HVD型精密高压分压器和电阻器提供广泛的自定义电阻值、电压比、额定电压、比率公差和比率温度系数。还提供单电阻器版本(HVD90、HVD150和HVD200)。除了省略了R2及其焊盘之外,电气和物理特性相同。可根据要求提供具有双分压(例如1:2'00:100)或其他自定义特性和配置自定义版本。详情请咨询工厂。

Precision High Voltage Dividers and Resistors Type HVD are available in a broad range of custom resistance values, voltage ratios, voltage ratings, ratio tolerances and ratio temperature coefficients. A Single Resistor version is also available (HVD90, HVD150 and HVD200). The electrical and physical characteristics are the same with the exception of R2 and its solder pad which are omitted. Custom versions with double voltage division (for example 1:2'000:100) or other custom characteristics and configurations are available on request. Consult factory for details.

规格参数 Specifications



产品特征 Characteristics

工作电压 Operating Voltage	HVD90=75KV HVD150=100KV HVD200=125KV	(标称电压) 用于绝缘矿物油或环氧树脂 (Nominal Voltage) Used in insulating mineral oil or epoxy	
标称功率 Nominal Power	HVD90=30Watt HVD150=35Watt HVD200=45Watt	用于绝缘矿物油或环氧树脂 Used in insulating mineral oil or epoxy	
过载电压 Overload Voltage	HVD90=90KV HVD150=120KV HVD200=150KV	15分钟 用于绝缘矿物油或环氧树脂 15 Minutes Used in insulating mineral oil or epoxy	
短期过载 Short Term Overload	HVD90=110KV HVD150=150KV HVD200=200KV	峰值电压 用于绝缘矿物油或环氧树脂 Peak Voltage Used in insulating mineral oil or epoxy	
主电阻值 Main Resistance Value	从1K到高达100GΩ from 1K to as high as 100GΩ		
比率 Ratio	1:1'000 to 1:20'000 HVD90, HVD150 and HVD200		
绝对公差 Absolute Tolerances	0.05%, 0.1%, 0.25%, 0.5%, 1%		
比率公差 Ratio Tolerances	0.05%, 0.1%, 0.25%, 0.5%, 1% HVD90, HVD150 and HVD200		
绝对温度系数 Absolute TC	5, 10, 15, 25, 50, 100 ppm/°C		温度系数 (Temperature Coefficient)
比率温度系数 Ratio TC	5, 10, 15, 25, 50 ppm/°C HVD90, HVD150 and HVD200		
工作温度 Operating Temperature	Oil+20°C...+70°C		其他根据要求 other on request
储存温度 Storage Temperature	-30°C...+150°C		
绝缘电阻 Insulation Resistance	> 10'000 M Ω		500伏25°C 75%相对湿度 500 Volt 25 °C 75% relative humidity
介质耐压 Dielectric Strength	> 1'000 Volt		25°C 75%相对湿度 25 °C 75% relative humidity
热冲击 Thermal Shock	Δ R/R < 0.1% typ, 0.25% max.		MIL标准202, 方法107. C MIL Std. 202, method 107 Cond. C
过载 Overload	Δ R/R < 0.1% typ, 0.25% max.		1.5 x Pnom 15分钟 (不超过峰值电压) 1,5x Pnom 15 min. (do not exceed peak voltage)
防潮性能 Moisture Resistance	不适用 Not applicable		(如果用于油或环氧树脂中) (if used in oil or epoxy)
负载寿命 Load Life	Δ R/R < 0.1% typ, 0.25% max.		1000小时@标称功率 1000 hour @ Nominal Power
绝对电阻电压系数 Absolute VCR	1K..3G < 0.06 ppm/V 3G..30G < 0.15 ppm/V		电阻电压系数 (典型值, 详情请联系工厂) Voltage Coefficient of Resistance (typical values, contact factory for details)
比率定义 Ratio Definition	R2 / (R1 + R2)		HVD150 and HVD200
封装 Encapsulation	丝网印刷硅 (如果用于油中) / 无封装 (如果用于环氧树脂中) Screen Printed Silicon if used in Oil / Without encapsulation if used in Epoxy		
焊接 Solder Pads	钯银 Palladium - Silver 选项: 3根焊接线, 长50毫米, 直径1.3毫米 Option: 3 soldered wires, 50 mm length, diameter 1.3 mm (Type AWG 26 ULAWM Style 1007 CSA TR 64)		
其他尺寸 Other Dimensions	Type HVD150 Type HVD200	A = 127 mm A = 160 mm	B = 119 mm B = 152 mm

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订购信息 Ordering Information

选择示例: HVD90U9640K250MF/25KF (HVD90、蓝色、尺寸: 96X40, $\pm 100\text{ppm}/^\circ\text{C}$, 250M Ω /25K, $\pm 1\%$)

Selection example: HVD90U9640K250MF/25KF (HVD90、blue、size:96X40, $\pm 100\text{ppm}/^\circ\text{C}$, 250M Ω /25K, $\pm 1\%$)

