

# HID Lamp Type

Metal Film Style [ HTM Series ] Carbon Film Style [ HTR Series ]



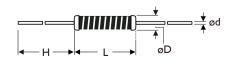
#### **FEATURES**

Power Rating	2W, 2.5W
Resistance Tolerance	±5%
T,C,R,	±250ppm/°C, -500~350ppm/°C

#### **INTRODUCTION**

The HTM Series Metal Film Resistors are manufactured using a vacuum sputtering system to deposit multiple layers of mixed metal alloys onto a carefully treated high grade ceramic substrate. And the HTR Series Carbon Film Resistors are manufactured by coating a homogeneous film of pure carbon on high grade ceramic rods. After a helical groove has been cut in the resistive layer, steel copper plated wires are welded to the end-caps. The resistor is not coated. This is a special product for HID lamps, providing high power within a small package and saving space.

### **DIMENSIONS**Unit: mm



STYLE	DIMENSION				
Normal	L	øD	н	ød	
HTR200	8.5±0.3	3.5±0.2	26±2.0	0.8±0.05	
HTM200	8.5±0.3	3.5±0.2	26±2.0	0.8±0.05	
HTM250	15.5±0.3	3.5±0.2	33±2.0	0.8±0.05	

Note:			

## **ELECTRICAL CHARACTERISTICS**

STYLE	HTR200	HTM200	HTM250
Power Rating at 70°C	2W		2.5W
Maximum Working Voltage	$\sqrt{P_XR}$		
Resistance Range	$2K\Omega$ - $100K\Omega$ for E24 series value		
Temperature Coefficient	$\pm$ 250ppm/°C for HTM series, -500~+350ppm/°C	for HTR series	

Note: Special value is available on request

## **ENVIRONMENTAL CHARACTERISTICS**

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	IEC 60115-1 4.13	2.5 times RCWV for 5 Sec.	±0.25% for HTM series ±0.50% for HTR series
Temperature Coefficient	IEC 60115-1 4.8	-55°C to +155°C	By type
Robustness of Terminations	IEC 60115-1 4.16	Direct load for 10 Sec. in the direction of the terminal leads	 ≥4kg (39.2N)
Periodic-pulse Overload	IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±1.0%+0.05Ω
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	±1.5%+0.05Ω
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇒ RoomTemp. ⇒ +155°C ⇒ RoomTemp. (5 cycles)	±0.75%+0.05Ω