

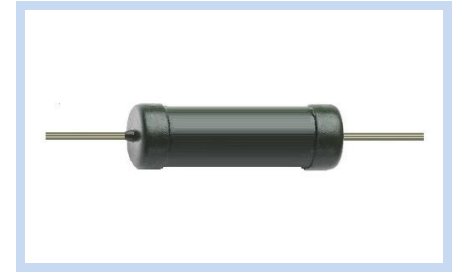
Anti-Pulse Resistor High Energy Axial Leaded

APR series

MERITEK

FEATURE

- Single Pulse Energy Up to 1000J
- High Humidity, High Reliability Construction Design
- High Voltage and Energy Absorption
- Applications: High Pulse and High Energy Charging and Discharging, High Voltage Power Supply, Soft Start/In-Rush Limiter, RC Snubber Circuits
- Moisture Resistance According to MIL-STD-202 Method 106

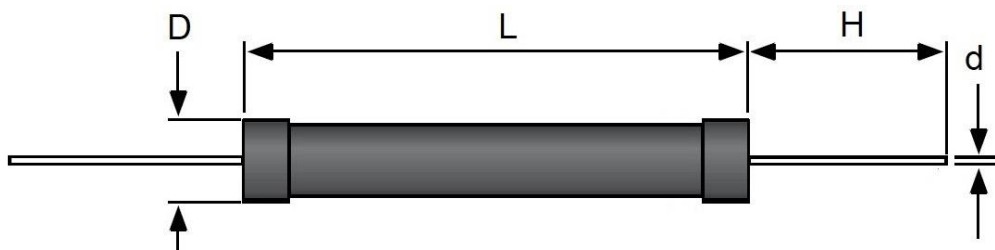


ELECTRICAL CHARACTERISTICS

Part Number	Rated Power 70°C	Nominal Resistance	Peak Energy	Peak Voltage	Temperature Coefficient
APR6W200KB	6W	20Ω ±10%	1000J	400V	±200ppm/ °C
APR6W500KB	6W	50Ω ±10%	1000J	700V	±200ppm/ °C
APR6W101KB	6W	100Ω ±10%	1000J	1000V	±200ppm/ °C
APR6W151KB	6W	150Ω ±10%	1000J	1500V	±200ppm/ °C
APR6W201KB	6W	200Ω ±10%	1000J	1900V	±200ppm/ °C
APR6W301KB	6W	300Ω ±10%	1000J	2500V	±200ppm/ °C
APR6W501KB	6W	500Ω ±10%	1000J	3500V	±200ppm/ °C
APR6W102KB	6W	1000Ω ±10%	1000J	5000V	±200ppm/ °C
APR6W202KB	6W	2000Ω ±10%	1000J	5000V	±200ppm/ °C
APR6W332KB	6W	3300Ω ±10%	1000J	5000V	±200ppm/ °C
APR6W472KB	6W	4700Ω ±10%	1000J	5000V	±200ppm/ °C
APR6W103KB	6W	10000Ω ±10%	1000J	5000V	±200ppm/ °C

Note: Operating Temperature: -55°C ~ +175°C

DIMENSIONS



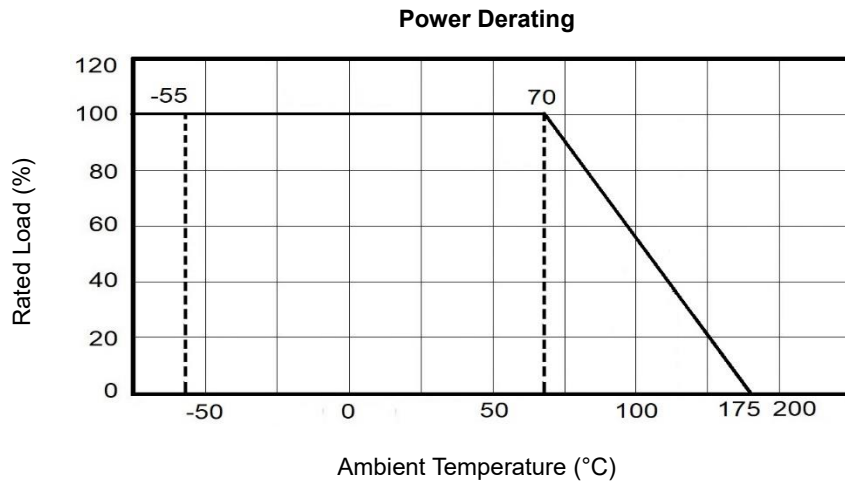
Rated Power 70°C	Dimensions (mm)				Coating Material
	D	L	H	d	
6W	8.5±1.0	52.0±1.5	36±0.2	1.0±0.05	Silicon

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CHARACTERISTIC CURVES



RELIABILITY TEST CONDITION AND REQUIREMENT

Test	Test Condition	Requirement
Temperature Coefficient Resistance (T.C.R.)	Resistance value at Operating Temperature Range and Room Temperature,	$\pm 200\text{ppm}/^\circ\text{C}$
Short Time Overload	10 times of rated power, 10 cycles, 5 seconds ON, 90 Seconds OFF	$\Delta R \leq \pm 0.5\%$
Load Life	70°C at RCWV for 1000 hrs	$\Delta R \leq \pm 2.0\%$
Moisture Resistance	MIL-STD-202 Method 106	$\Delta R \leq \pm 2.0\%$
Thermal Shock	-55°C to +125°C, 10 cycles	$\Delta R \leq \pm 0.5\%$
High Temp. Storage	125°C for 1000 hrs	$\Delta R \leq \pm 0.5\%$
Solderability	260 \pm 5°C for 2 \pm 0.5 seconds	95% Min Coverage

Notes: Storage Temperature: 25 \pm 3°C; Humidity < 80% RH, Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} * \text{Resistance}}$. Value

PART NUMBERING SYSTEM

APR 6W 103K B
(1) (2) (3) (4)

No	Item	Code	Description
(1)	Meritek Series	APR	Anti-Pulse Resistor series, High Energy Axial Leaded type
(2)	Rated Power	6W	6W at 70°C DxL: 52x8.5mm
(3)	Resistance	103K	10000 Ω \pm 10% (K) First Two Digit: Significant, Third: Multiplier
(4)	Internal Code	B	TCR \pm 200ppm, Bulk Pack