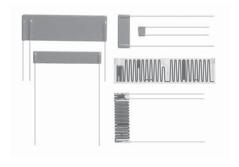




High Voltage Resistors and Dividers



STANDARD ELECTRICAL SPECIFICATIONS										
MODEL		TANCE ms)	POWER RATING	MAXIMUM VOLTAGE (Volts)						
	(Min.)	(Max.)	(Watts)							
TR03	300	10G	0.25	2.5k						
TR05	500	100G	0.50	5k						
TR10	1000	1T	1.00	10k						
TR15	1500	1.5T	1.50	15k						
TR20	2000	2T	2.00	20k						
TR30	3000	3T	3.00	30k						

NOTE: Custom sizes available.

ELECTRICAL SPECIFICATIONS

Resistance Range: 300 Ohms to 6 Tera Ohms. **Resistance Tolerance:** ± 0.25% to ± 20%. (values over 1 Gig Ohms, consult factory)

Ratio Tolerance: 1% to 20%.

Temperature Coefficient: < 100ppm/°C absolute.

(values over 1 Gig Ohms, consult factory)

Ratio TC: To 5ppm/°C. (Ratio over 1000:1, consult factory)

Maximum Voltage: 30 000 volts. (Higher available)

Voltage Coefficient: Typically less than 1ppm/V. (Tested

per MIL-STD-202).

Load Life: Less than 0.15%, 1000 hours.

MECHANICAL SPECIFICATIONS

Resistive Element: Thick film. Substrate: 96% pure alumina.

Encapsulation: Epoxy base, conformal coating.

Terminals: Tin plated copper leads. **Terminal Strength:** 4.5 pounds pull-test.

Power: Derated from ambient temperature + 25°C.

ENVIRONMENTAL SPECIFICATIONS

Temperature Range: - 55°C to + 125°C. (For higher

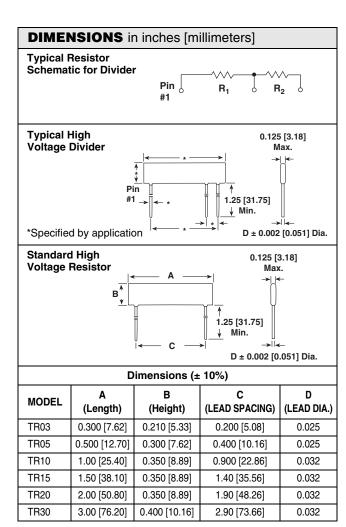
temperature range, consult factory).

FEATURES

- 30 000 volts capability.
- Very low voltage coefficient to less than 0.1ppm/Volt.
- · Outstanding stability under adverse conditions.
- Stable cermet resistive element bonded to a high-purity alumina substrate.
- Tough epoxy-based coating and high voltage stability.
- Designs built from customer supplied schematics.
- Dividers available leaded or non-leaded.
- Typical resistance ratios of 1000:1, 2000:1, etc.
- TCR tracking to ± 5ppm/°C depending on values.

APPLICATIONS

Applications include power supplies, transformers and any application requiring operation within an environment where high voltages are used.

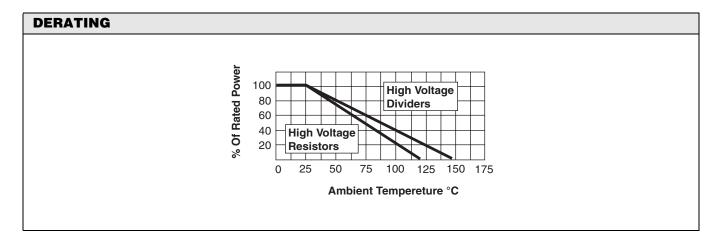


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High Voltage Resistors and Dividers





ORDERING INFORMATION - HIGH VOLTAGE RESISTORS AND HIGH VOLTAGE DIVIDERS											
TR	2	20	G	10	001	Н	K	e3			
MODEL	MODEL LENGTH (± 10%)		POWER RATING	VALUE (OHMS)		TOLERANCE	TCR	LEAD TERMINATION			
(Resistor)	,		C = 0.25	First three digits are		$F = \pm 1\%$	$K = \pm 100$	e3 = 100% Sn			
of inches, next digit is tenths of an inch.		D = 0.50	significant. The last digit specifies the number of zeros		$G = \pm 2\%$	$L = \pm 200$					
	is tentils of all more.		F = 1.00	to follow.		$J = \pm 5\%$	$M = \pm 300$				
			G = 1.50			$K = \pm 10\%$					
			H = 2.00			$M = \pm 20\%$					
			J = 3.00								
TD	20	С	s	1006	3301	Н	F	e3			
MODEL (Divider)	LENGT H	POWER RATING	RATIO TCR (ppm)	VALUE (OHMS)	RATIO R1/R2	RATIO TOLERANCE	ABS TOL. R1	LEAD TERMINATION			
First digit is of inches,		C = 0.25	S = 10	Resistance Value of R1:	First three digits are	F = 1.0%	F = ± 1%	e3 = 100% Sn			
is tenths o	•	D = 0.50	R = 25	First three	significant.	G = 2.0%	$G = \pm 2\%$				
		F = 1.00	H = 50	digits are significant.	The last digit specifies the	H = 3.0%	H = ± 3%				
		G = 1.50	K = 100	Last digit specifies the	number of zeros to	J = 5.0%	$J = \pm 5\%$				
		H = 2.00	L = 200	number of	follow.		$K = \pm 10\%$				
		J = 3.00	M = 300	zeros to follow.			M = ± 20%				

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