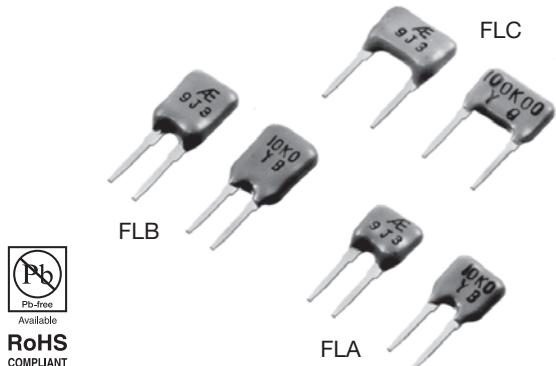


Precision Resistor (Conformally Coated)



COMPOSITION OF TYPE NUMBER			
Example: FLA X 500R00 B			
		Tolerance Resistance Value TCR Type	

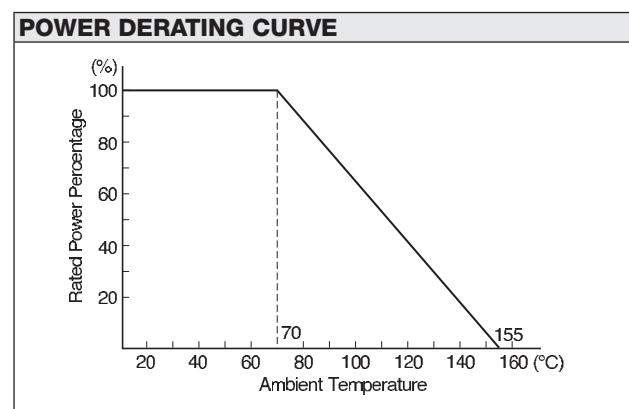
Resistance value, in ohm, is expressed by a series of six characters, five of which represent significant digits. R or K is a dual-purpose letter that designates both the value range (R for ohmic; K for kilo-ohm) and the location of decimal point.

CONFIGURATION (DIMENSIONS IN mm)			
Type	FLA	FLB	FLC
L	5.6±0.5		7.5±0.5
W	6.2±0.5	8.2±0.5	6.2±0.5
T		2.2±0.5	
F	2.54±0.25		5.08±0.25
ℓ		5±1	
t		0.3±0.05	
a		1.0±0.05	
b		0.65±0.05	
c		0.4±0.05	

TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER				
Type	TCR (ppm/°C) -25°C to +125°C*	Resistance Range (Ω)	Resistance Tolerance (%)*†	Rated Power (W) at 70°C
FLA	0±5 (X)	5 to 10	±0.1 (B) ±0.5 (D) ±1.0 (F)	0.125
	0±5 (X) 0±2.5 (Y)	10 to 30	±0.1 (B) ±0.5 (D) ±1.0 (F)	
		30 to 100k	±0.05 (A) ±0.1 (B) ±0.5 (D)	
FLB	0±15 (W)	1 to 5	±0.5 (D) ±1.0 (F)	0.25
	0±5 (X)	5 to 10	±0.1 (B) ±0.5 (D) ±1.0 (F)	
	0±5 (X) 0±2.5 (Y)	10 to 100	±0.05 (A) ±0.1 (B) ±0.5 (D) ±1.0 (F)	
		100 to 150k	±0.02 (Q) ±0.05 (A) ±0.1 (B)	
FLC	0±15 (W)	1 to 5	±0.5 (D) ±1.0 (F)	0.25
	0±5 (X)	5 to 10	±0.1 (B) ±0.5 (D) ±1.0 (F)	
		10 to 30	±0.05 (A) ±0.1 (B) ±0.5 (D) ±1.0 (F)	
	0±5 (X) 0±2.5 (Y)	30 to 1k	±0.02 (Q) ±0.05 (A) ±0.1 (B) ±0.5 (D)	
		1k to 200k	±0.01 (T) ±0.02 (Q) ±0.05 (A) ±0.1 (B)	

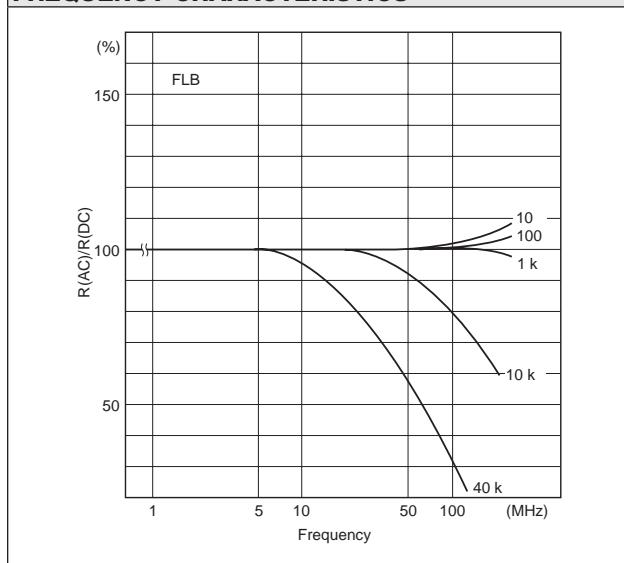
* Symbols parenthesized are for type number composition.

† Resistance figures are the values obtained by measuring at the point 2.5±1.0 mm below the shoulder of leads.



PERFORMANCE

Parameters	Test Condition	ALPHA Specification	ALPHA Typical Test Data
Maximum Rated Operating Temperature		70°C	
Working Temperature Range		-25°C to +155°C	
Maximum Working Voltage		FLA=250V, FLB/FLC=300V	
Temperature Cycling Overload	-25°C/30 min., Room Temperature/5 min., +155°C/30 min., 5 cycles Rated Voltage x 2.5, 5 sec.	±0.05% ±0.05%	±0.01% ±0.0025%
Solderability Resistance to Solvents	235°C, 2 sec. ① Isopropyl Alcohol ② Trichloroethylene	over 75% coverage no damage	over 75% coverage no damage
Low Temperature Storage Terminal Strength	-25°C, No Load, 2 hrs. 0.908 kg (2 pounds), 10 sec.	±0.05% ±0.05%	±0.0025% ±0.0025%
Dielectric Withstanding Voltage	Atmo. Pres.: AC 300V, 1 min.	±0.03%	±0.0025%
Insulation Resistance	DC 100V, 1 min.	over 10,000 MΩ	over 10,000 MΩ
Resistance to Soldering Heat	350°C, 3 sec.	±0.03%	±0.0025%
Moisture Resistance	+65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.)	±0.1%	±0.015%
Shock Vibration	50G, 11 ms, Half-Sine Wave, X, Y, Z, each 3 shocks 20G, 10 Hz to 55 Hz to 10 Hz, 1 min., X, Y, Z, each 2 hrs.	±0.03% ±0.03%	±0.005% ±0.005%
Life (Rated Load)	70°C, Rated Power, 1.5 hr. - ON, 0.5 hr. - OFF, 1,000 hrs.	±0.1%	±0.01%
Life (Moisture Load)	40°C, 90% RH to 95% RH, Rated Power, 1.5 hr. - ON, 0.5 hr. - OFF, 1,000 hrs.	±0.05%	±0.01%
Storage Life	15°C to 35°C, 15% RH to 75% RH, No Load, 10,000 hrs.	±0.02%	±0.005%
High Temperature Exposure	155°C, No Load, 1,000 hrs.	±0.05%	±0.01%
Current Noise		-25 dB	-42 dB
Pressure Cooker Test	121°C, 100% RH, 2 atmospheric, No Load, 100 hrs.	±0.5%	±0.1%

FREQUENCY CHARACTERISTICS

TEMPERATURE OF RESISTOR SURFACE
