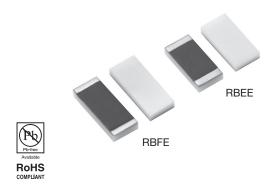
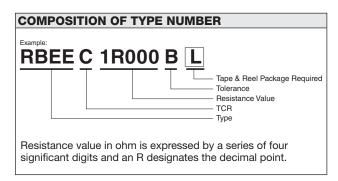
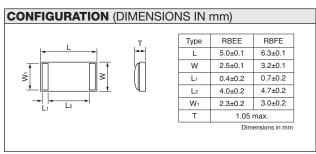
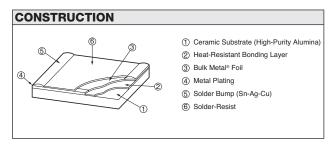


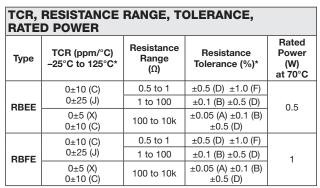
High-Precision Bulk Metal® Foil Chip Resistor (Flip-Chip) with Extended Range over 0.5Ω



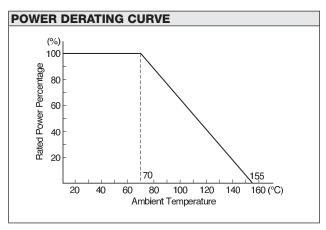




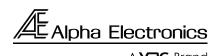




*Symbols parenthesized are for type number composition.



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PERFORMANCE					
Parameters	Test Condition	ALPHA Specification	ALPHA Typical Test Data		
Maximum Rated Operating Temperature Working Temperature Range		70°C -65°C to +155°C			
Thermal Shock	-65°C/30 min. ↔ +155°C/30 min., 100 cycles	±0.1%	±0.03%		
Overload	Rated Voltage x 2.5, 5 sec.	±0.1%	±0.03%		
Low Temperature Storage and Operation	-65°C, No Load, 24 hrs.→ Rated Voltage, 45 min.	±0.1%	±0.05%		
Dielectric Withstanding Voltage Insulation Resistance Resistance to Soldering Heat	Atmo. Pres.: AC 200V, 1 min. DC 100V, 1 min. 260°C, 10 sec.	±0.05% over 10,000 MΩ ±0.5%	±0.01% over 10,000 MΩ ±0.03%		
Shock Vibration, High Frequency	100G, 6 ms, Sawtooth Wave, X, Y, Z, each 10 shocks 20G, 10 Hz to 2,000 Hz to 10 Hz, 20 min., X, Y, Z, each 2.5 hrs.	±0.1% ±0.1%	±0.01% ±0.01%		
Moisture Resistance	+65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.)	±0.1%	±0.03%		
Load Life	+70°C, Rated Power, ON-OFF (75% duty), 1,000 hrs.	±0.1%	±0.05%		
High Temperature Exposure	155°C. No Load. 1.000 hrs.	±0.1%	±0.05%		

TAPE AND REEL PACKAGE (BASED ON EIA-481-1) (DIMENSIONS IN mm) Reel Dimensions Reel Capacity | RBEE 2,000 pieces/reel | RBFE: 4,000pcs/reel RBEE: 0.30±0.05 Sprocket Hole RBFE: 0.25±0.05 RBEE: 1.5±0.1 W₁ RBFE: 1.2±0.1 Туре Во W F Е P₁ P2 P₀ D₀ N В D W₁ W₂ A₀ Type 5.2 12.0 5.5 1.75 4.0 2.0 4.0 Dia.1.5 2.7 **RBEE RBEE** ±0.05 +0.1-0 ± 0.1 ± 0.05 18.4 ± 0.1 ± 0.2 ± 0.1 ± 0.1 ± 0.1 Dia.178 Dia.60 Dia.13 Dia.21 1.0 20 12.4 3.4 6.7 12.0 5.5 1.75 4.0 2.0 4.0 ±2 min. ±0.5 ±0.8 ±0.5 ±0.3 max. ±0.5 Dia.1.5 **RBFE RBFE** ± 0.1 ± 0.1 ± 0.2 ± 0.05 ±0.1 ±0.1 ± 0.05 ± 0.1 +0.1-0

PRECAUTION IN USING SMD CURRENT SENSE RESISTORS

1. Storage

Storage condition or environment may adversely affect solderability of the exterior terminals. Do not store in high temperature and humidity. The recommended storage environment is lower than 40°C, has less than 70% RH humidity and is free from harmful gases such as sulphur and chlorine.

2. Caution in Soldering

- Solder Reflow in Furnace
 - Recommended
 - Peak Temperature: 250+0/-5°C
 - Holding time: 10 sec. max.
 - To cool gradually at room temperature.
- Dipping in Solder (Wave or Still)
- Recommended
- Temp. of Solder: 260°C max.
- Length of Dipping: 10 sec.
- Other

Soldering iron is never recommended. Corrosion-free flux such as rosin is recommended.

3. Cleaning

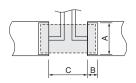
Use volatile cleaner such as methylalcohol or propylalcohol.

4. Circuit Board Design

Solder Land Dimensions

The dimensions of solder land must be determined in conformity with the size of resistors and with the soldering method. They are also subject to the mounting machine and the material of the substrate. See example at right.

RBEE, RBFE



T	Dimensions in mm			
Туре	Α	В	С	
RBEE	2.5 to 2.6	0.6	3.9	
RBFE	3.4 to 3.6	1.2	4.5	

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