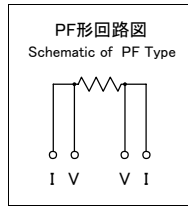
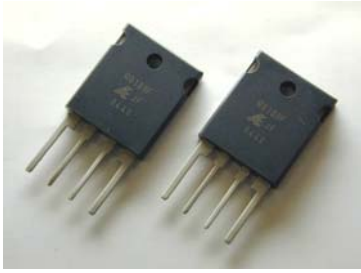


PF type



重量(Weight)≒7g

特長 (Features)

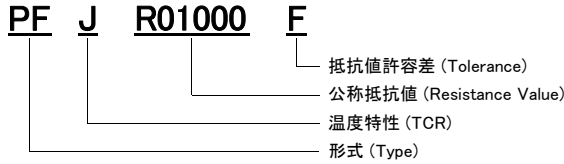
- 金属箔抵抗体使用により高信頼性と低抵抗温度係数を実現
- 熱放散性を考慮した内部構造と銅プレート付きパッケージを採用
- 熱抵抗の極めて小さな小型抵抗器のため電子機器の高密度実装に最適
- ・ Hi reliability and low TCR which based on metal foil technology
- ・ Excellent heat radiation by copper base package and internal construction
- ・ Best solution for hi density mount by extremely low thermal resistance

用途 (Applications)

精密電源、自動車各種制御ユニット、インバータユニット 等  
Current-sensing in precise power supply etc.

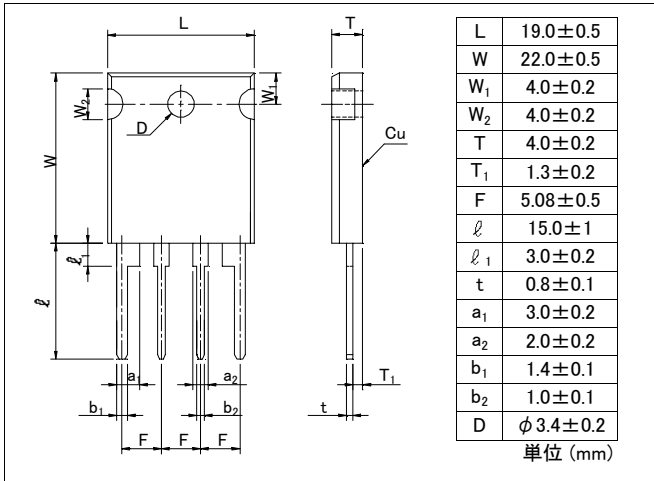
形名の構成 (Composition of Type Number)

例 Example:



抵抗値の表示は5有効数字1英文字とします。小数点はR(Ωレンジ)を用います。  
Resistance value in ohm is expressed by series of 5 significant digits and an R designating the decimal point.

形状 (Configuration)

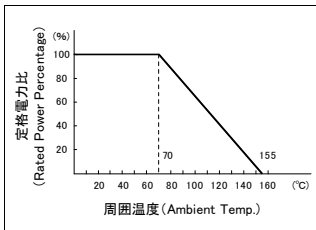


温度特性、抵抗値範囲、許容差、定格 (TCR, Resistance Range, Tolerance, Rated Power)

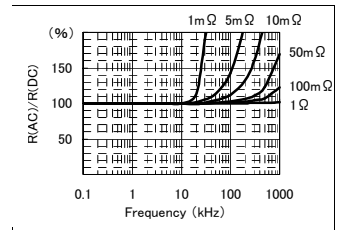
抵抗温度特性 TCR (ppm/°C) +25°C~+125°C	抵抗値範囲 Resistance Range (Ω)	抵抗値許容差 Resistance Tolerance (%)	定格電力(W) Rated Power at 70°C
0±50(H)	0.001 ≤ R < 0.1	±1(F), ±2(G), ±5(J)	2
0±25(J)	0.1 ≤ R ≤ 1		On heat sink*1 12

\*1 放熱器の寸法は152.4mm(L)×101.6mm(W)×50.8mm(H)×1.0(T)のアルミシヤンとします。  
For heat sinking an Aluminum chassis in 152.4(L)×101.6(W)×50.8(H)×1.0(T) mm shall be used.

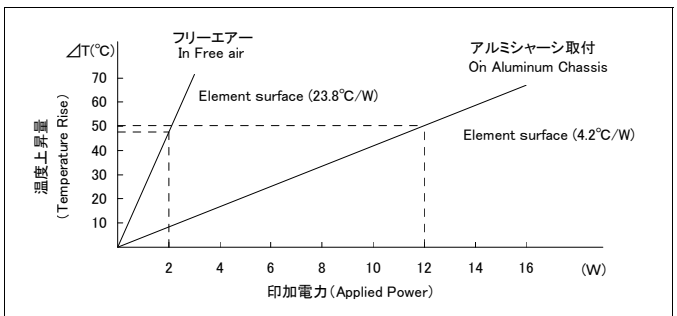
軽減曲線 (Derating Curve)



周波数特性 (Frequency)



表面温度 (Temperature of Resistor Surface)



性能 (Performance)

項目 Parameters	試験条件 Test Condition	アルファ規格値 ALPHA Specification	アルファ代表値 Typical Test Data
最高定格動作温度 Max. Rated Operating Temperature			70°C
使用温度範囲 Working Temperature Range			-55°C~+155°C
最高使用電流 Max. Working Current			100A
電力処理 Power Conditioning	25°C; Rated Power; 96hrs	±0.05%	±0.01%
低温貯蔵 Low Temperature Storage	-55°C; No Load; 24hrs	±0.05%	±0.01%
耐電圧 Dielectric Withstanding Voltage	Atmospheric Pressure; AC500V; 1min	±0.05%	±0.01%
絶縁抵抗 Insulation Resistance	DC100V; 1min	over 10,000MΩ	over 10,000MΩ
低温動作 Low Temperature Operation	-55°C; Rated Power	±0.05%	±0.01%
過負荷 Overload	Rated Power × 5; 5sec	±0.05%	±0.01%
耐湿性(温湿度サイクル) Moisture Resistance	+65°C~-10°C; 90~98%RH; Rated Power; 240hrs	±0.1%	±0.05%
端子強度 Terminal Strength	2.27kg (5pounds); 10sec	±0.05%	±0.01%
衝撃 Shock	100G; 6ms; Sawtooth Wave, X, Y, Z, each 3 shocks	±0.05%	±0.01%
高周波振動 Vibration, High Frequency	20G; 10Hz to 2000Hz to 10Hz, 20min, X, Y, Z, each 4hrs	±0.05%	±0.01%
寿命 Life	70°C, Rated Power, 1.5hr.-ON, 0.5hr.-OFF, 2000hrs	±0.2%	±0.1%
高温放置 High Temperature Exposure	155°C, No Load, 2000hrs	±0.2%	±0.1%
はんだ付け性 Solderability	245°C, 5sec	over 95% coverage	over 95% coverage
内部熱抵抗 Thermal Resistance to Base Plate	Between Element Surface and Base Plate		1.5°C/W
熱起電力 Thermal EMF	0°C~100°C		0.1 μV/°C
インダクタンス Inductance	1mΩ	under 20nH	7nH