ALUMINIUM HOUSED RESISTOR

c**UL**us PHF

The PHF resistors are designed in an ultra thin package capable of dissipating high power where space is at a premium and heat sinking is available. The resistor is capable of absorbing high overloads in relation to its size.

The resistors are ideal for use in servo drives & controllers and frequency inverters. They are used for motor braking, dummy loads and in conventional power resistor applications.

TECHNICAL DATA

Resistor Type	PHF
Tolerance	±5%, ±10% (±1%, ±2% Possible on Request)
Maximum Operating Voltage V_{AC} (f=50Hz)	1000V; In accordance with UL 508 specification reduced to 600V
Maximum Operating Voltage V_{DC}	1414V; In accordance with UL 508 specification reduced to 848V
Surge Voltage Capability (V) (Between active part and housing)	4000 V; in accordance with IEC 61800-5-1
Insulation Resistance	≥100MΩ @ 500 V_{DC}
Dielectric Strength (f=50Hz, 1Min)	2200 VAC for 1 Minute
TCR	-80 to 200ppm/^{o}C
Resistor Element	Wire Wound Resistor
Cable	Standard insulated 18AWG,600V,200°C
Resistor Body	Anodized Extruded Aluminium Profile
UL File Number	E514636

COMPONENT DRAWING:
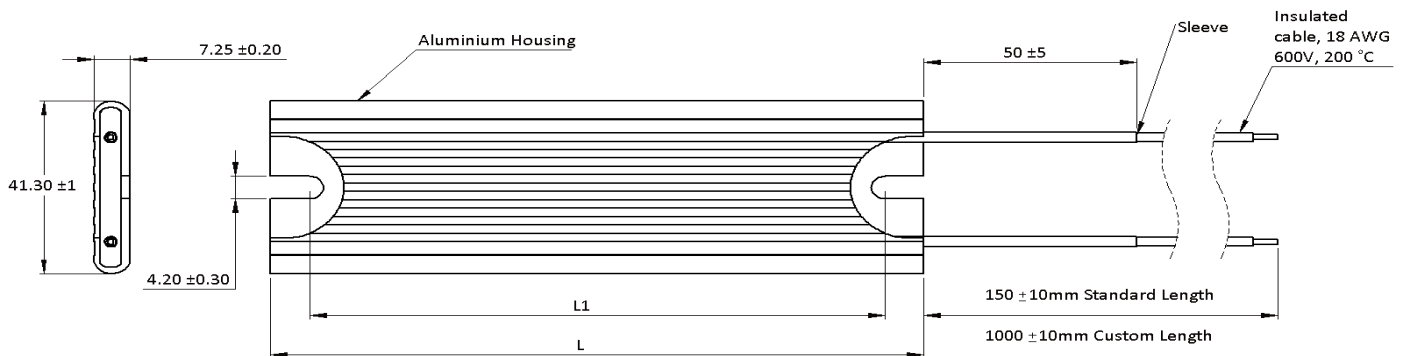
S. No.	PEC Type	Ohmic Value (Ω)	L±1.5 (mm)	L1±1.5 (mm)	Rated Power @ 20$^{o\#}$ in free air (Watts)*	Rated Power @ 40$^{o\#}$ in free air (Watts)*
1	PHF130	3R3 - 3K3	130	115	70	50
2	PHF165	4R7 – 5K6	165	150	100	65

*Resistor is placed vertically, and its surface temperature is not exceeding 275°C. Maximum allowed temperature rise is 250°C.
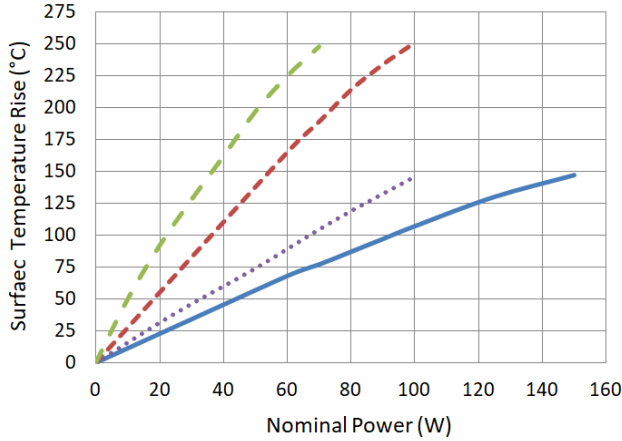
Ambient Temperature specified at 20°C/40°C.
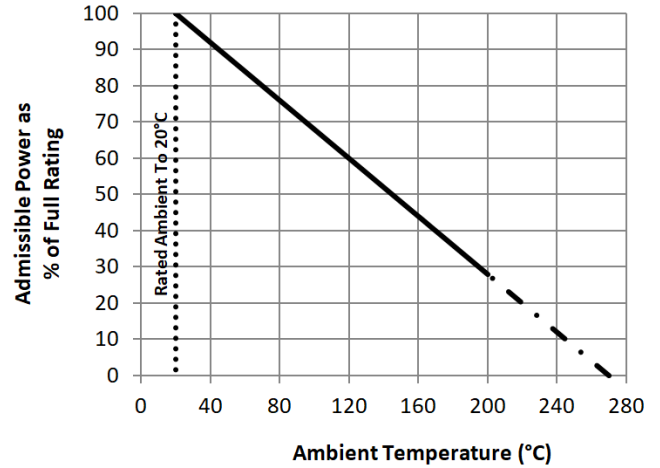
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Power VS Surface Temperature Rise

**PHF165, Heatsink Mounted **
PHF165, Without Heatsink, Vertically Mounted
**PHF130, Heatsink Mounted **
PHF130, Without Heatsink, Vertically Mounted

Derating Chart

** All tests are conducted using a 0.5°C/W rated heat sink. A thermal transfer compound must be applied to ensure low thermal resistance between resistor and heat sink. The heat sink must be flat to ensure good contact with the resistor.

ORDERING CODE:

PEC Type	Ohmic Value	Tolerance	Dielectric Voltage	Termination	Cable Length
PHF165	4.3Ω - 4R3 10Ω - 10R 5000Ω - 5K	5%-J 10%-K	Standard -S	Cable- C Special - M	Standard-X Custom-M-Length
PHF130	3.3Ω - 3R3 100Ω - 100R 3300Ω - 3K3	5%-J 10%-K	Standard -S	Cable- C Special - M	Standard-X Custom-M-Length

FULL PART NUMBER: PHF165-47R-KSCX

PHF130-110R-KSCX

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Errors and omissions excepted (E & OE).
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Drafted/Revised Date: - 18/08/2020