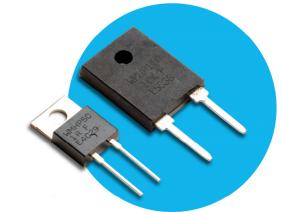
Resistors

Heatsink Mount High Power Resistors

WMHP Series

- TO-220 & TO-247 standard power packages
- Very low thermal resistance
- Non-inductive thick film technology
- 20 to 100 watt high power resistors
- Single screw mounting to heatsink
- Suitable for high frequency / fast pulse use



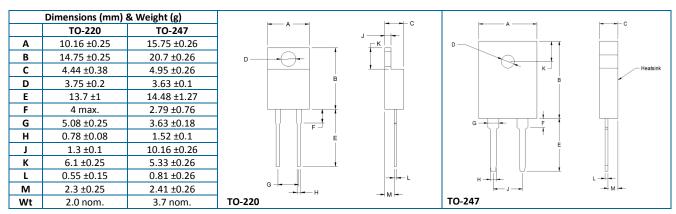


KHS All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

		WMHP20	WMHP35	WMHP50	WMHP100	Conditions
Package style			TO-220		TO-247	
Power rating	watts	20	35	50	100	Heatsink with 25°C flange temperature
Power rating	watts	1.5	2.5	3	3.5	Without heatsink, in free air 25°C
Limiting element voltage	volts	350 700			700	dc or ac rms
Resistance range	ohms	R05 – 10K				
Dielectric strength	volts	1800				ac rms for 60s
Working temperature range	°C	-65 to 150			-65 to 175	
Insulation resistance	ohms	>10G				Between terminals and tab
Tolerances	%	≤1R0: ±5 >1R0: ±1, ±5				
TCR	ppm/°C	≤R20: ±1000 >R20-3R0: ±300 >3R0-10R: ±100 >10R: ±50				25 to 105°C
Standard values		E24 preferred				

Physical Data



Performance Data

Test		Performance
Load at Rated Power: 2000hrs at rated power	±ΔR%	1
Short Term Overload: 2 x rated power with applied voltage not to exceed 1.5 x maximum continuous operating voltage for 5 seconds	±ΔR%	0.5
Damp Heat with Load: 40 ±2°C, 90 – 95% RH, maximum working voltage 1.5 hours on, 0.5 hours off, 1000 hours	±ΔR%	1
Thermal Shock: -65°C/150°C, 100cycles	±ΔR%	0.3
Terminal Strength: 2.4N pull test	±ΔR%	0.2

General Note

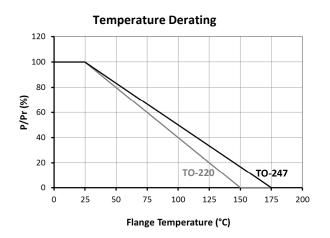
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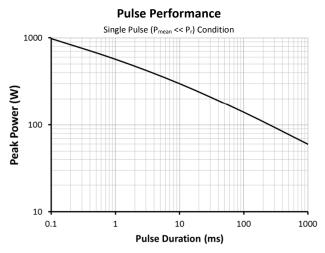
Resistors

Heatsink Mount High Power Resistors



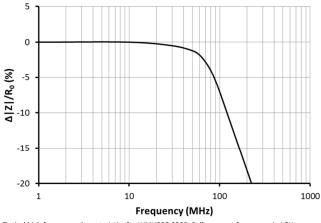
WMHP Series





Pulse performance for durations \geq 1s is dependent on mounting conditions. The short term overload power limit is 2 x power rating for 5s.

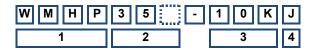
Typical High Frequency Performance



Typical high frequency characteristics for WMHP35-220R. Self resonant frequency is 1GHz.

Ordering Procedure

Example: WMHP35-10KJ (WMHP35 at 10 kilohms ±5%, Pb-free)



1	2	3	4	
Туре	Rating	Value	Tolerance	Packing
WMHP	20	3 / 4 characters	F = ±1%	Plastic tubes
	35	R = ohms	J = ±5%	TO-220: 50/tube
	50	K = kilohms		TO-247: 30/tube
	100			

General Note

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 SIL09E103J
 SIL09E104J
 SIL10M183G
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 HH120150KFZ

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 3811-100GFI
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 MHR0317SA506F70
 MHR0844SA107F70
 MHR0317SA507F70
 MHR0844SA106F70

 MHR0844SA108G70
 MP821-7.5-1%
 MHR0422SA106F70
 MHR0422SA108F70
 MHR0422SA107F70
 MHR0424SA106F70

 MHR0424SA506F70
 MHR0424SA107F70
 MHR0422SA507F70
 MHR0424SA106F70
 MHR0424SA106F70