

**Thick Film Power - continued**

**140 Watt - MHP 140 Series**

**T0-247 Package**



- Extremely Low thermal resistance, 0.9 °C/W resistor hot spot to metal tab
- Small thin package for high density PCB installation
- Non-inductive, high power resistor.

**NEW**

Application includes: AC motor control, UPS and power supply circuits, PLC drivers.

Power rating	140W
Voltage rating	700V
Resistance tolerance	±1%
Operating temperature	155°C to +55°C
Temperature coefficient	50ppm/°C (0.01-0.09Ω) 100ppm/°C (0.1-9.1Ω) 250ppm/°C (0.01-0.09Ω)

Stocked in the following OHMIC Values:

100R = <b>111-4429</b>	220m = <b>111-4430</b>	1R = <b>111-4431</b>
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Order Code	1+	50+	250+	500+	+
<b>All Values</b> ●	515.00	447.00	374.00	365.00	--

**LTO Series**



- Direct mounting ceramic on heatsink
- Non Inductive
- Isolated case

**NEW**

Series	LTO 30 Series	LTO 50 Series	LTO 100 Series
Power	30W	50W	100W
Temperature Coefficient	150ppm/°C	150ppm/°C	150ppm/°C
Temperature Range	+150 to -55°C	+150 to -55°C	+175 to -55°C
Tolerance	±5%	±5%	±5%
Voltage	250V	250V	375V
Dimension (mm)	L = 16.2, W = 10.4, D = 3.2 (LTO 30 & 50 Series)		L = 20.7, W = 15.76, D = 5 (LTO 100 Series)

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**LTO 30 Series**

Value	Order Code	Value	Order Code
OR01	956-6872	4R7	956-6970
OR015	956-6880	5R	956-6988
OR022	956-6899	10R	956-6996
OR047	956-6902	15R	956-7003
OR05	956-6910	22R	956-7011
OR068	956-6929	47R	956-7020
OR1	956-6937	100R	956-7038
OR47	956-6945	1K	956-7046
1R	956-6953	10K	956-7054
2R2	956-6961		

**LTO 50 Series**

Value	Order Code	Value	Order Code
OR01	956-7062	4R7	956-7151
OR022	956-7070	5R	956-7160
OR047	956-7089	10R	956-7178
OR05	956-7097	22R	956-7186
OR068	956-7100	47R	956-7194
OR1	956-7119	100R	956-7208
OR47	956-7127	1K	956-7216
1R	956-7135	10K	956-7224
2R2	956-7143		

**LTO 100 Series**

Value	Order Code	Value	Order Code
OR015	956-7240	4R7	956-7305
OR022	956-7259	10R	956-7313
OR047	956-7267	15R	956-7321
OR05	956-7275	100R	956-7330
OR1	956-7283	1K	956-7348
1R	956-7291	10K	956-7356

Order Code	1+	10+	50+	10+	50+
<b>All LTO 30 Values</b> ●	206.00	193.00	181.00	167.00	--
<b>All LTO 50 Values</b> ●	259.00	248.00	235.00	248.00	235.00
<b>All LTO 100 Values</b> ●	594.00	561.00	549.00	561.00	549.00

**5, 10, 25 & 50 Watt – RCH Series**



- Non-inductive thick film technology
- Audio and high frequency applications
- High power rating
- High overload capabilities
- High stability

**VISHAY**

**5 Watt**

Power rating @ 25°C with 1°C/W heatsink without heatsink	25W 5W	Dielectric strength	3500Vrms
Resistance Tolerance	±5%	Insulation resistance	10 <sup>6</sup> MΩ
Operating temperature	-55°C to +125°C	Limiting element Voltage	550Vrms
Dimensions:		Maximum overload voltage	1100Vrms
L=28, W=14, Height above PCB=15		Thermal resistance	1.4°C/W
Fixing centres=18.3 x 19.8, Hole dia.=3.2			

Stocked in the following OHMIC Values:

100R = <b>881-0753</b>	1R = <b>881-0788</b>	22R = <b>881-0818</b>	47R = <b>881-0842</b>
10K = <b>881-0761</b>	1R5 = <b>881-0796</b>	2R2 = <b>881-0826</b>	4R7 = <b>881-0850</b>
10K = <b>881-0770</b>	220R = <b>881-0800</b>	470R = <b>881-0834</b>	680R = <b>881-0869</b>

Order Code	1+	20+	50+	100+	+
<b>All Values</b> ●	216.00	203.00	187.00	156.00	--

**10 Watt**

Power rating @ 25°C with 1°C/W heatsink without heatsink	25W 10W	Dielectric strength	3500Vrms
Resistance Tolerance	±5%	Insulation resistance	10 <sup>6</sup> MΩ
Operating temperature	-55°C to +125°C	Limiting element Voltage	550Vrms
Dimensions:		Maximum overload voltage	1100Vrms
L=28, W=14, Height above PCB=15		Thermal resistance	1.4°C/W
Fixing centres=18.3 x 19.8, Hole dia.=3.2			

Stocked in the following OHMIC Values:

100R = <b>881-0630</b>	1K = <b>881-0664</b>	22R = <b>881-0699</b>	47R = <b>881-0729</b>
10K = <b>881-0648</b>	1R = <b>881-0672</b>	2R2 = <b>881-0702</b>	4R7 = <b>881-0737</b>
10R = <b>881-0656</b>	220R = <b>881-0680</b>	470R = <b>881-0710</b>	680R = <b>881-0745</b>

Order Code	1+	20+	50+	100+	+
<b>All Values</b> ●	232.00	217.00	200.00	161.00	--

**25 Watt**

Power rating @ 25°C with 1°C/W heatsink without heatsink	25W 4W	Dielectric strength	3500Vrms
Resistance Tolerance	±5%	Insulation resistance	10 <sup>6</sup> MΩ
Operating temperature	-55°C to +125°C	Limiting element Voltage	550Vrms
Dimensions:		Maximum overload voltage	1100Vrms
L=28, W=14, Height above PCB=15		Thermal resistance	1.4°C/W
Fixing centres=18.3 x 19.8, Hole dia.=3.2			

Stocked in the following OHMIC Values:

1R = <b>114-1500</b>	22R = <b>114-1504</b>	330R = <b>114-1509</b>	4K7 = <b>114-1514</b>
2R2 = <b>114-1501</b>	47R = <b>114-1505</b>	470R = <b>114-1511</b>	10K = <b>114-1515</b>
4R7 = <b>114-1502</b>	100R = <b>114-1506</b>	680R = <b>114-1512</b>	10K = <b>306-7180</b>
10R = <b>114-1503</b>	220R = <b>114-1507</b>	1K = <b>114-1513</b>	

Order Code	1+	20+	50+	100+	+
<b>All Values</b> ●	235.00	218.00	201.00	140.00	--

**50 Watt**

Power rating @ 25°C with 1°C/W heatsink without heatsink	50W 5.5W	Dielectric strength	3500Vrms
Resistance Tolerance	±5%	Insulation resistance	10 <sup>6</sup> MΩ
Operating temperature	-55°C to +125°C	Limiting element Voltage	1285Vrms
Dimensions:		Maximum overload voltage	2500Vrms
L=47.8, W=15.5, Height above PCB=15		Thermal resistance	0.8°C/W
Fixing centres=39.7 x 21.4, Hole dia.=3.2			

Stocked in the following OHMIC Values:

OR47 = <b>114-1516</b>	22R = <b>114-1520</b>	470R = <b>114-1525</b>	4K7 = <b>114-1529</b>
1R = <b>114-1517</b>	47R = <b>114-1522</b>	680R = <b>114-1526</b>	10K = <b>114-1530</b>
6R8 = <b>114-1518</b>	100R = <b>114-1523</b>	1K = <b>114-1527</b>	22K = <b>114-1531</b>
10R = <b>114-1519</b>	220R = <b>114-1524</b>	2K2 = <b>114-1528</b>	

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Order Code	1+	20+	50+	100+	+
<b>All Values</b>	238.00	219.00	204.00	167.00	--

**100 & 200 Watt – RTOP Series**

**SOT227B Package**



- Non-inductive thick film technology.
- High power rating
- Low thermal radiation
- High dielectric strength
- Integrated base avoids mounting stress, optimises resistor reliability
- Air abrading for improved stability and overload capability

L = 38, W = 25, Height above PCB = 12.5  
Fixing centres = 30, Hole Dia. = 4.2

**100 Watt**

Power rating (Pr) @ 25°C with heatsink without heatsink	100W 100W 5W	Insulation resistance	>10 <sup>6</sup> MΩ
Resistance Tolerance	±5%	Limiting element voltage	1500Vrms
Operating temperature	-55°C to +125°C	Thermal resistance	1°C/W
		Overload capability	2.5xPr for 5 secs
		Terminals	M4x6 screw terminals