

Power Resistors

CADDOCK MP725 D-PAK STYLE POWER FILM RESISTORS

DIMENSIONS: in. (mm)

Features:

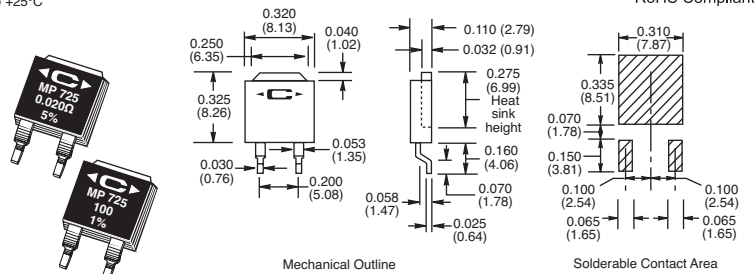
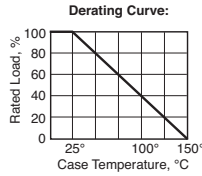
- Non-Inductive Design
- Values as Low as 0.020Ω
- Resistor Electrically Isolated from Heat Sink

***Derating Note: The case temperature is to be used for purposes of establishing the maximum applied power. See Derating Curve.** The case temperature measurement is made on the metal mounting tab against the molded body. Derate appropriately for the ambient temperature range, the thermal resistance of the mounting surface, and the temperature limitations of the adjacent materials (such as glass epoxy). The Thermal Resistance (film to case) is 5.00°C/W. For additional technical information refer to the Applications Note at www.caddock.com. Power dissipation is 2.5 watts, at an ambient temperature of 25°C, when mounted on a standard pcb (ex. FR-4 or G-10) with double sided copper board (2 ounce) 1 inch X 1 inch X .063 inch (thick).

Soldering Note: The case temperature of the MP725 should not exceed +219°C during reflow soldering or any other soldering process. See the applications note at caddock.com for more information.

Specifications:

- Power Rating: 25W at +25°C Case Temp. (see Derating Note for Power Rating)
- Temp. Coeff. ΔR taken at +150°C, ref to +25°C
0.50Ω to 1.00 KΩ: -20 to +80ppm/°C
0.050Ω to 0.49Ω: 0 to +200ppm/°C
0.020Ω to 0.049Ω: 0 to +300ppm/°C



Power Resistors

For quantities greater than listed, call for quote.

Table of Values in (Ω)			MOUSER STOCK NO.	Caddock Part No.	Case Style	Power Rating	Thermal Res. (Film to Case)	Max. Operating Voltage ACrms	Ohm Range (See Table of Stocked Values)	Tol. ±	Price Each			
0.02	2	75									1	10	25	50
0.05	5	100	684-MP725-Value	MP725-Value-Tol.	D-Pak Style	25W	5.0°C/W	Power Limited	0.02	5%	7.71	6.16	5.70	5.39
0.1	10	200			D-Pak Style	25W	5.0°C/W	Power Limited	0.05	1%	7.71	6.16	5.70	5.39
0.2	20	500			D-Pak Style	25W	5.0°C/W	Power Limited	0.1 to 0.5	1%	5.70	4.54	4.21	3.80
0.5	25	1K			D-Pak Style	25W	5.0°C/W	200V	1 to 5	1%	5.28	4.22	3.90	3.71
1	50				D-Pak Style	25W	5.0°C/W	200V	10 to 1K	1%	4.83	3.84	3.56	3.37

CADDOCK MK132V/ MK632V SERIES POWER FILM RESISTORS

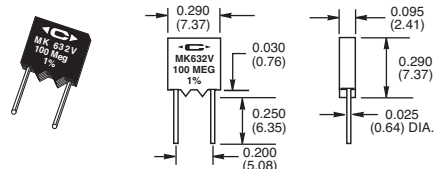
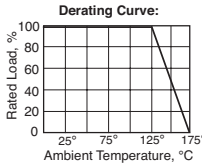
Features:

- Non-Inductive Design
- Values from 1Ω to 100MΩ
- Compact Footprint
- Can replace many RN Type Resistors

Specifications:

- Power: 0.75W at +125°C
- Voltage: 400V at +125°C
- Temp. Coeff. -15°C to +105°C, ref. +25°C
5Ω to 5MΩ: ±50ppm/°C
10MΩ to 100MΩ: ±90ppm/°C
1Ω to 2Ω: ±200ppm/°C

Table of Values in (Ω)			
1	200	50K	10M
2	500	100K	20M
5	1K	200K	50M
10	2K	500K	100M
20	5K	1M	
50	10K	2M	
100	20K	5M	



DIMENSIONS: in. (mm)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Ohm Range (See Table of Stocked Values)	Tol. ±	Price Each			
			1	10	25	50
684-MK132V-Value	1 to 20	1%	7.36	5.88	5.45	5.15
	50	1%	4.65	3.72	3.45	3.25
	100 to 50K	1%	3.84	3.08	2.84	2.68
	100K to 500K	1%	4.65	3.72	3.45	3.25
684-MK632V-Value	1M to 5M	1%	6.00	4.78	4.42	4.20
	10M	1%	6.37	5.09	4.70	4.45
	20M to 100M	1%	7.67	6.14	5.68	5.37

CADDOCK TN130V SERIES POWER FILM RESISTORS

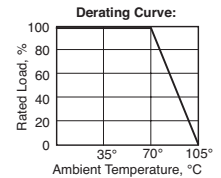
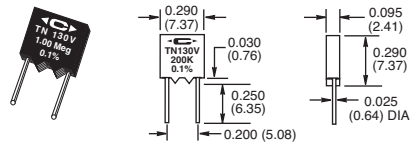
Features:

- Non-Inductive Design
- Values from 1KΩ to 1MΩ
- Compact Footprint

Specifications:

- Power Rating: 0.30W at +70°C
- Voltage Rating: 200V at +70°C
- Temp. Coeff. ±10ppm/°C
ΔR taken at 0°C and +70°C, ref. to +25°C

DIMENSIONS: in. (mm)



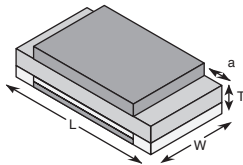
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Caddock Part No.	Price Each			
		1	25	50	100
684-TN130V-1K	TN130V-1K-0.1%-10ppm	8.15	6.51	6.02	5.70
684-TN130V-2K	TN130V-2K-0.1%-10ppm	8.15	6.51	6.02	5.70
684-TN130V-5K	TN130V-5K-0.1%-10ppm	8.15	6.51	6.02	5.70
684-TN130V-10K	TN130V-10K-0.1%-10ppm	8.15	6.51	6.02	5.70
684-TN130V-20K	TN130V-20K-0.1%-10ppm	8.15	6.51	6.02	5.70
684-TN130V-50K	TN130V-50K-0.1%-10ppm	8.15	6.51	6.02	5.70
684-TN130V-100K	TN130V-100K-0.1%-10ppm	9.41	7.52	6.96	6.59
684-TN130V-200K	TN130V-200K-0.1%-10ppm	10.55	8.47	7.83	7.40
684-TN130V-500K	TN130V-500K-0.1%-10ppm	12.20	9.76	9.03	8.55
684-TN130V-1M	TN130V-1Meg-0.1%-10ppm	13.84	11.07	10.22	9.68

OHMITE HVF SERIES HIGH VOLTAGE FLIP CHIP RESISTORS

Specifications:

- Resistance Tolerance: ±1% (* = ±5%)
- Temperature Coefficient: ±100ppm std.
- Coating: Silicone
- Solder Pad Material: Silver (PdAg)



Features:

- High voltage up to 3,000 volts
- Industry standard sizes
- Working temperature range -55°C to 200°C
- Designed for automatic insertion



Series	Power Rating (mW)	Voltage Rating	DIMENSIONS: in.				Reel Qty.
			L ±0.008	W ±0.008	a ±0.008	T (max.)	
HVF1206	300	1,500	0.128	0.063	0.018	0.028	5000
HVF2512	1000	3,000	0.252	0.126	0.026	0.032	4000

3K Volt

MOUSER STOCK NO.	Ohmite Part Number	Value (Ω)	Price Each					
			1	10	100	250	500	1000
588-HVF2512T2502FE	HVF2512T2502FE	25K	3.96	3.71	2.88	2.31	2.27	2.24
588-HVF2512T5002FE	HVF2512T5002FE	50K	3.96	3.71	2.88	2.31	2.27	2.24
588-HVF2512T7502FE	HVF2512T7502FE	75K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T1003FE	HVF2512T1003FE	100K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T2503FE	HVF2512T2503FE	250K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T5003FE	HVF2512T5003FE	500K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T1004FE	HVF2512T1004FE	1000K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T1504FE	HVF2512T1504FE	1500K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T2004FE	HVF2512T2004FE	2000K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T2504FE	HVF2512T2504FE	2500K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T5004FE	HVF2512T5004FE	5000K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T7504FE	HVF2512T7504FE	7500K	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T1007FE	HVF2512T1007FE	1G	3.96	3.71	3.02	2.42	2.37	2.34
588-HVF2512T5007FE	HVF2512T5007FE	5G	3.96	3.71	3.02	2.42	2.37	2.34

1.5K Volt

MOUSER STOCK NO.	Ohmite Part Number	Value (Ω)	Price Each					
			1	10	100	250	500	1000
588-HVF1206T2502FE	HVF1206T2502FE	25K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T5002FE	HVF1206T5002FE	50K	3.85	3.60	2.84	2.55	2.27	2.20
588-HVF1206T7502FE	HVF1206T7502FE	75K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T1003FE	HVF1206T1003FE	100K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T2503FE	HVF1206T2503FE	250K	3.85	3.60	2.84	2.55	2.27	2.20
588-HVF1206T5003FE	HVF1206T5003FE	500K	3.85	3.60	2.84	2.55	2.27	2.20
588-HVF1206T1004FE	HVF1206T1004FE	1000K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T1504FE	HVF1206T1504FE	1500K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T2004FE	HVF1206T2004FE	2000K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T2504FE	HVF1206T2504FE	2500K	3.85	3.60	2.84	2.55	2.27	2.20
588-HVF1206T5004FE	HVF1206T5004FE	5000K	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T7504FE	HVF1206T7504FE	7500K	3.85	3.60	2.84	2.55	2.27	2.20
588-HVF1206T1007JE	HVF1206T1007JE	1G*	3.85	3.60	2.84	2.55	2.28	2.20
588-HVF1206T1008JE	HVF1206T1008JE	10G*	3.85	3.60	2.84	2.55	2.28	2.20