

MLF/MLFM Series

金属皮膜 MELF 抵抗器 / Metal Film Melf Resistor

Stackpole Electronics, Inc.

Resistive Product Solutions

特長 / Features:

- 精密性、安定性のために、薄膜技術を採用
- 部品サイズに比べて、大きな定格電力
- 優れた耐パルス特性を示す
- Thin Film Technology for precision and stability
- Excellent power to size ratio
- Exhibits good pulse power characteristics



定格 / Electrical Specifications									
形名 Type / Code	サイズ Package Size	定格電力 Power Rating (Watts) @ 70°C	最高使用電圧 Maximum Working Voltage(1)	最高過負荷電圧 Maximum Overload Voltage	抵抗温度係数 Resistance Temperature Coefficient	抵抗値範囲 (Ω) / 抵抗値許容差 Ohmic Range (Ω) and Tolerance			
						0.1%	0.5%	1%	5%
MLF 14	0204	0.25W	200V	400V	±10 ppm/°C	49.9 - 20k	49.9 - 20k	49.9 - 20k	49.9 - 20k
					±15 ppm/°C	49.9 - 300k	49.9 - 300k	49.9 - 300k	49.9 - 300k
					±25 ppm/°C	10 - 1M	10 - 1M	10 - 1M	10 - 4.7M
					±50 ppm/°C	10 - 1M	1 - 1M	1 - 10M	1 - 10M
MLF 12	0207	0.5W	300V	500V	±10 ppm/°C	49.9 - 20k	49.9 - 20k	49.9 - 20k	49.9 - 20k
					±15 ppm/°C	49.9 - 300k	49.9 - 300k	49.9 - 300k	49.9 - 300k
					±25 ppm/°C	10 - 1M	10 - 1M	10 - 4.7M	10 - 4.7M
					±50 ppm/°C	10 - 1M	1 - 1M	1 - 5.1M	1 - 10M
MLFM 1	0207	1W	350V	700V	±15 ppm/°C	49.9 - 100k	49.9 - 100k	49.9 - 100k	49.9 - 100k
					±25 ppm/°C	10 - 1M	10 - 1M	10 - 1M	10 - 1M
					±50 ppm/°C	10 - 1M	1 - 1M	1 - 10M	1 - 10M
					±50 ppm/°C	10 - 1M	1 - 1M	1 - 10M	1 - 10M

(1) 定格電圧は、 $\sqrt{\text{定格電力} \times \text{公称抵抗値}}$ による計算値、又は最高使用電圧のいずれか小さい方の値とする。
Lesser of \sqrt{PR} or maximum working voltage.

性能 / Performance Characteristics	
試験項目 Test	規格値 Specification
定格負荷 Load Life	±2.0%
高温高湿(定常) Load Life in Moisture	±2.0%
はんだ耐熱性 Resistance to Soldering Heat	±0.5%
はんだ付け性 Solderability	Min 95% coverage
短時間過負荷 Short Time Overload	±0.5%
絶縁抵抗 Insulation Resistance	1GΩ minimum

使用温度範囲 / Operating Temperature Range: -55°C to +155°C

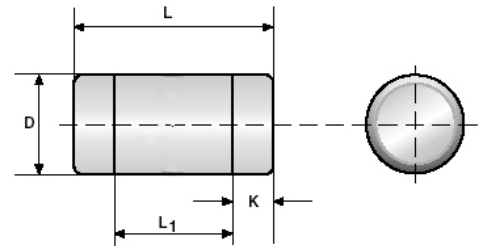
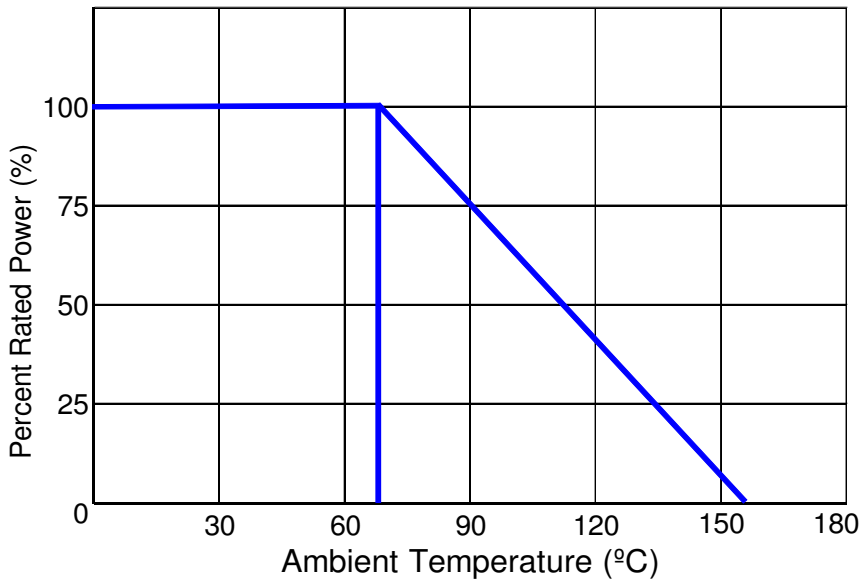
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Power Derating Curve:



外形寸法 / Mechanical Specifications				
形名 Type / Code	寸法 / Dimensions (mm)			
	L : Body Length	D : Body Diameter	L1 : Inner Body	K : Termination
MLF 14	3.50 ± 0.20	1.40 ± 0.15	2.3	0.50 ± 0.10
MLF 12 / MLFM 1	5.90 ± 0.20	2.20 ± 0.20	4.7	0.50 ± 0.10

形名構成 / How to Order

1	2	3	4	5	6	7	8	9	10	11	12																																								
M	L	F	1	2	D	T	E	4	K	7	5																																								
品種 Product Series <table border="1"> <tr><td>MLF</td><td>Standard</td></tr> <tr><td>MLFM</td><td>Mini</td></tr> </table>		MLF	Standard	MLFM	Mini	サイズ Size <table border="1"> <tr><td>14</td><td>0.25W</td></tr> <tr><td>12</td><td>0.5W</td></tr> <tr><td>1</td><td>1W</td></tr> </table>	14	0.25W	12	0.5W	1	1W	定格電力 Power Rating <table border="1"> <tr><td>Code</td><td>Tol</td></tr> <tr><td>B</td><td>0.1%</td></tr> <tr><td>D</td><td>0.5%</td></tr> <tr><td>F</td><td>1%</td></tr> <tr><td>J</td><td>5%</td></tr> </table>	Code	Tol	B	0.1%	D	0.5%	F	1%	J	5%	抵抗値許容差 Tolerance <table border="1"> <tr><td>Code</td><td>Description</td><td>Size</td><td>Quantity</td></tr> <tr><td>T</td><td>7" reel paper tape</td><td>0204</td><td>3,000</td></tr> <tr><td></td><td></td><td>0207</td><td>2,000</td></tr> </table>				Code	Description	Size	Quantity	T	7" reel paper tape	0204	3,000			0207	2,000	抵抗温度係数 TCR <table border="1"> <tr><td>Code</td><td>ppm</td></tr> <tr><td>T</td><td>10</td></tr> <tr><td>S</td><td>15</td></tr> <tr><td>E</td><td>25</td></tr> <tr><td>C</td><td>50</td></tr> </table>	Code	ppm	T	10	S	15	E	25	C	50	抵抗値 Resistance Value 10進数の4桁表示 Four characters with the multiplier used as the decimal holder. 10 Ω = 10R0 100 Ω = 100R 1 kΩ = 1K00 560 kΩ = 560K
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