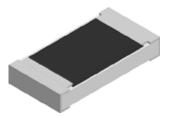




# Lead (Pb)-Free Thick Film, Wraparound Low Value Resistor (R = $0.25 \Omega$ )



#### **FEATURES**

• Metal glaze on high quality ceramic



- Protective overglaze
- Lead (Pb)-free solder contact on Ni barrier layer
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes e3
- Material categorization: For definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

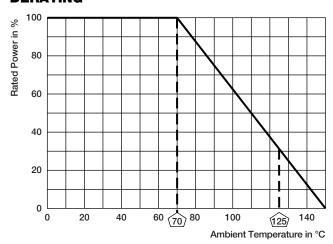
STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	CASE SIZE INCH	CASE SIZE METRIC	POWER RATING <sup>(1)</sup> P <sub>70</sub> W	LIMITING ELEMENT VOLTAGE MAX. V≅	TEMPERATURE COEFFICIENT ± ppm/°C	TOLERANCE ± %	RESISTANCE VALUE Ω			
LR	2512	6332	2.0	$\sqrt{P \times R}$	300	1	0.25			

#### Note

(1) CECC 40401-802/EIA-575

TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	2512				
Power rating	W	2.0				
Limiting element voltage	V	√P x R				
Insulation voltage (1 min)	V <sub>peak</sub>	> 300				
Thermal resistance	K/W	≤ 45				
Insulation resistance	Ω	> 10 <sup>9</sup>				
Temperature range	°C	- 55 to + 125				
Weight/1000 pieces	g	40.5				

#### **DERATING**

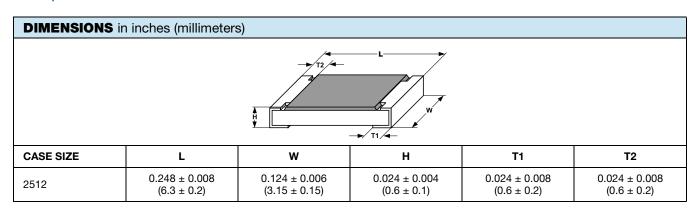


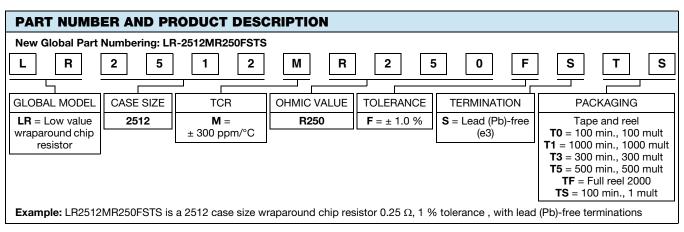
PERFORMANCE							
TEST	CONDITIONS OF TEST	REQUIREMENTS (2)					
Endurance test at 70 °C IEC 60115-1, 4.25.1	1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	≤ ± 2 %					
Endurance at UCT IEC 60115-1, 4.25.3	1000 h at 125 °C without load	≤ ± 0.5 %					
Overload test IEC 60115-1, 4.13	Short time overload for 2 s	≤±1%					
Thermal shock IEC 60115-1, 4.19; IEC 60068-2-14	Rapid change between upper and lower category temperature	≤ ± 1 %					
Damp heat steady state IEC 60115-1, 4.24; IEC 60068-2-3	56 days at 40 °C and 93 % relative humidity	≤ ± 2 %					
Resistance to soldering heat IEC 60115-1, 4.18; IEC 60068-2-20	10 s at 260 °C solder bath temperature	≤ ± 1 %					

#### Note

(2) Limits for change of resistance at test.

## Vishay Dale Thin Film







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