

Vishay Dale Thin Film

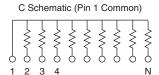
# Thin Film Resistor Network Military, MIL-PRF-83401 Qualified, Type RZ070, RZ080, RZ090, RZ210, RZ220, RZ230, Single-In-Line SIP



Qualified to meet MIL-PRF-83401 characteristic "R", "V", and "H"

These resistor networks are available in 6 pins, 8 pins, and 10 pins in schematic C and G styles. Custom circuits are not available. Schematic C and G only. They incorporate Vishay Dale Thin Film's patented passivated nichrome film to give superior performance on temperature coefficient of resistance, thermal stability, noise, voltage coefficient, power handling and resistance stability. The leads are attached to the metallized alumina substrates by Thermo-Compression bonding. The body is molded thermoset plastic with gold plated copper alloy leads. This product will outperform all of the requirements of characteristic "R", "V", and "H" of MIL-PRF-83401.

#### **SCHEMATIC**



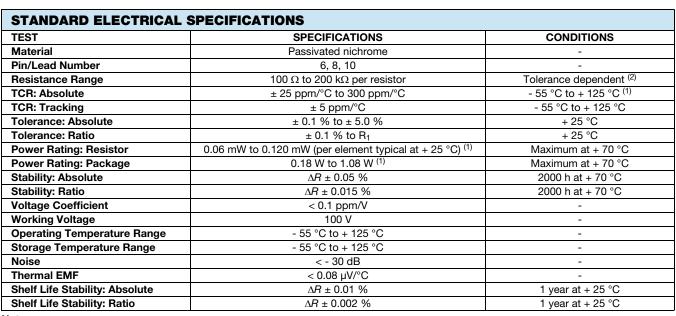
#### **FEATURES**

- MIL-PRF-83401 qualified (cage code 57489)
- Low Profile 0.195" (4.95 mm seated height)
- Characteristics R (± 25 ppm), H, V, K, and M
- Hot fused tin/lead 60/40 solder dipped
- Rugged molded low profile construction with standoff
- 100 % screened to groups A MIL-PRF-83410 testing
- Tolerances to 0.1 %
- Isolated and bussed (schematic C and G)

G Schematic (Isolated)

#### TYPICAL PERFORMANCE

	ABSOLUTE TRACKING		
TCR	25	5	
	ABSOLUTE	RATIO	
TOL.	0.1	0.1 to 0.05	

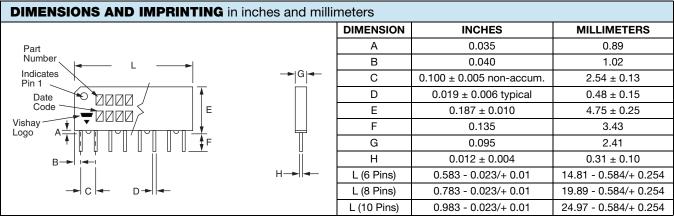


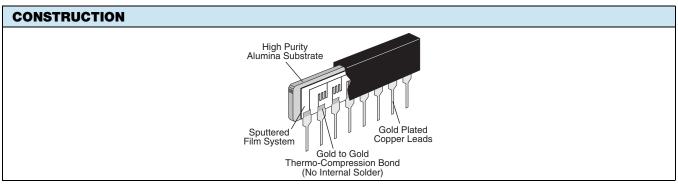
#### Notes

- (1) Consult MIL-PRF-83401
- $^{(2)}$  "H" characteristic 100  $\Omega$  to 100  $k\Omega$  resistance range at 0.1% best
  - "R" characteristic 250  $\Omega$  to 100  $k\Omega$  resistance range at 0.1% best
  - "R" characteristic 250  $\Omega$  to 200  $k\Omega$  resistance range at 1% best



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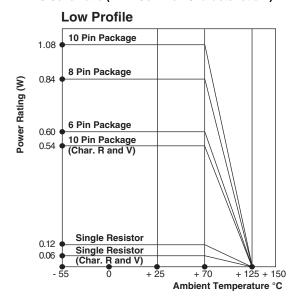




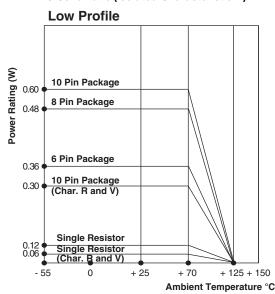
MECHANICAL SPECIFICATIONS				
Resistive Element	TAMELOX passivated nichrome			
Substrate Material	Alumina			
Body Molded	Ероху			
Terminals	Copper alloy			
Plating/Solder	Nickel/gold/Sn63 fussed			

#### **POWER DERATING**

#### C Schematic (Pin 1 Common Characteristic H)

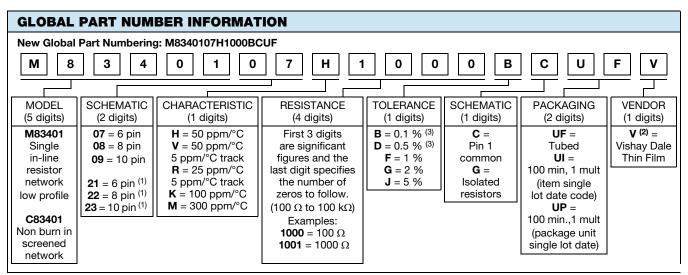


#### G Schematic (Isolated Characteristic H)





## Vishay Dale Thin Film



#### **Notes**

- (1) No internal solder
- (2) "V" is not required for characteristics R, H, and V, it is only required for K and M. Characteristics tolerance equal to or greater than 1 %."
- $^{(3)}$  "H" characteristic 100  $\Omega$  to 100  $k\Omega$  resistance range at 0.1% best
  - "R" characteristic 250  $\Omega$  to 100 k $\Omega$  resistance range at 0.1% best
  - "R" characteristic 250  $\Omega$  to 200  $k\Omega$  resistance range at 1% best

MODEL	SCHEMATIC	CHARACTERISTIC	RESISTANCE RANGE	TOLERANCE	SCHEMATIC
M83401 08 = 8 p 09 = 10 c C83401 21 = 6 p 22 = 8 p		H = 50 ppm/°C	100 to 100K	B, D, F, G, J	C, G
	07 = 6 pin (RZ070)	V = 50 ppm/°C/ 5 ppm/°C track	250 to 100K	B, D, F, G, J	
	08 = 8 pin (RZ080)		250 to 200K	F, G, J	
	09 = 10 pin (RZ090) 21 = 6 pin (RZ210)	R = 25 ppm/°C 5 ppm/°C track	250 to 100K	B, D, F, G, J	
	22 = 8 pin (RZ220)		250 to 200K	F, G, J	
	23 = 10 pin (RZ230)	K = 100 ppm/°C	100 to 100K	B, D, F, G, J	
		M = 300 ppm/°C			



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