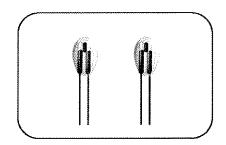


Glass Encapsulated Type for Temperature Sensing/Compensation

Features

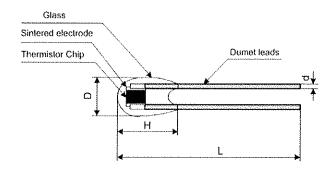
- 1. RoHS compliant
- 2. Glass-encapsulated and heat-resistive
- 3. Body size: Φ2.5mm
- 4. Operating temperature range: -40°C ~+250 °C



Recommended Applications

- 1. Home appliances
- 2. Automotive electronics

■ Structure and Dimensions



(Unit: mm)

Series	D	Н	L.	đ	
TGMA	2.5±0.2	3.8±0.5	≧40	0.30±0.02	



Glass Encapsulated Type for Temperature Sensing/Compensation

■ Electrical Characteristics

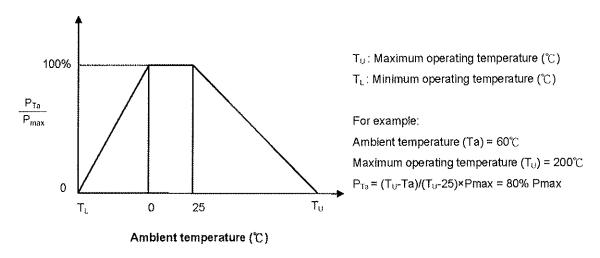
- Liectifeat Citate							
Part No.	Zero Power Resistance	B Value	RT Curve	Max. Power Dissipation at 25*C	Dissipation Factor	Thermal Time Constant	Operating Temperature Range
	(ΚΩ)	(K)		P _{max} (mW)	δ(mW/°C)	r (Sec.)	T _L ~T _U (°C)
TGMAA503F3993DA6	R100=3.3K±2%		А				
TGMAA503F3993DA5	R100=3.3K±3%						
TGMAA503F3993DA1	R100=3.3K±5%						
TGMAA503G4013DA1	R25=50K±2%	B0/100=3970±3%					
TGMAA503H4013DA1	R25=50K±3%						
TGMAA503J4013DA1	R25=50K±5%						
TGMAA104G4113DA1	R25=100K±2%						
TGMAA104H4113DA1 R25=100K±3%				70	Approx. 1.4	Approx.	-40 ~ +250
TGMAA104J4113DA1	R25=100K±5%	B100/200=4300±3%	В				
TGMAA104F4113DA2	R200=0.55K±2%	B100/200-4300£3 /k					
TGMAA104F4113DA3	R200=0.55K±3%						
TGMAA104F4113DA5	R200=0.55K±5%						
TGMAA103G39HAD	R25=10K±2%	B25/85= 3975±1.5%	С				
TGMAA103H39HAD	R25=10K±3%						
TGMAA103J39HAD	R25=10K±5%						

Note 1: Special specifications are available upon request.

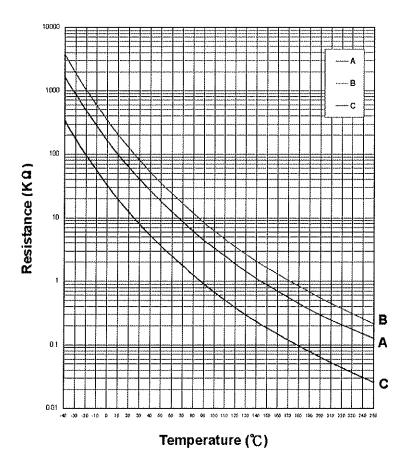


Glass Encapsulated Type for Temperature Sensing/Compensation

■ Max. Power Dissipation Derating Curve



R-T Characteristic Curves (representative)





Glass Encapsulated Type for Temperature Sensing/Compensation

Reliability

ltem	Standard		Specifications		
High Temperature Storage	P Heat, IEC 60068-2-2 Tu ± 5℃, 1000 ± 24 hrs 1				No visible damage ∆R₂s/R₂s ≦ 5 %
Damp Heat, Steady State					No visible damage ∆R₂s/R₂s ≤ 5 %
	IEC 60068-2-14	The conditions st			
		Step	Temperature (*C)	Period (minutes)	
Rapid Change of		1	T _L ± 5	30 ± 3	No visible damage
Temperature		2	Room temperature	5 ± 3	$ \triangle R_{25}/R_{25} \le 5\%$
		3	Tu ± 5	30 ± 3	
		4	Room temperature	5 ± 3	
Max. Power Dissipation	IEC 60539-1	:	No visible damage △R ₂₅ /R ₂₅ ≤ 5 %		

■ Warehouse Storage Conditions of Products

Storage Conditions :

1. Storage Temperature: -10℃~+40℃

2. Relative Humidity: ≦75%RH

3. Keep away from corrosive atmosphere and sunlight.

Period of Storage : 1 year