

NTC Thermistors

SMD Thermistors



TSM Series

MERITEK

Features

1. EIA size 0402, 0603, 0805, 1206
2. Highly reliable monolithic structure
3. Wide resistance range
4. Cost effective
5. Agency recognition: UL

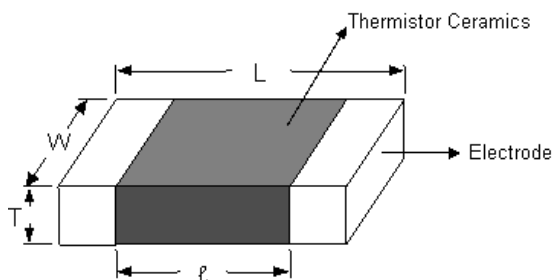
UL E223037



PART NUMBERING SYSTEM

Meritek Series		TSM	2	A	104	H	39	H	2	F
Size		CODE		1	2					
				0603	0805					
Beta Value		CODE		A	B					
				B _{25/85}	B _{25/50}					
Part No. (R25)		CODE		102	103					
				1K	10K					
Tolerance of Resistor		CODE		F	G	H	J	K		
		(%)		±1	±2	±3	±5	±10		
Beta Value—first 2 digits		CODE		30	31	...	39	40	41	
				30	31	...	39	40	41	
Beta Value—last 2 digits		CODE		0	A	1	2	D	...	5
				00	05	10	...	20	35	...
								50	55	...
									75	H
										75
Tolerance of Beta Value		CODE		1	2	3	...			
		(%)		±1	±2	±3	...			
Standard Packaging		CODE		R	B					
				Reel	Bulk					

Dimensions



Part no.	Size	L nor.	W nor.	T max.	l min.
TSM0	0402	1.00±0.15	0.50±0.10	0.60	0.2
TSM1	0603	1.60±0.15	0.80±0.15	0.95	0.3
TSM2	0805	2.00±0.20	1.25±0.20	1.20	0.4
TSM3	1206	3.20±0.30	1.60±0.20	1.50	0.5

NTC Thermistors

SMD Thermistors



TSM Series

MERITEK

Electrical Characteristics

Part No.	Zero Power Resistance at 25°C	Tolerance of R ₂₅	B Value		Tolerance of B value	Max. Power Rating at 25°C	Dissipation Factor	Thermal Time Constant	Operating Temperature Range	Safety Approvals
	R ₂₅ (KΩ)	(±%)	(K)		(±%)	P _{max} (mW)	δ(mW/°C)	τ(Sec.)	T _L ~T _U (°C)	UL
TSM0A103^34D*	10	1、2、3 5、10	25/85	3435	1、2、3	170	Approx. 1.7	Approx. 2	-40 ~ +125	
TSM0A103^391*	10			3910						
TSM0A223^393*	22			3930						
TSM0A333^393*	33			3930						
TSM0A473^393*	47			3930						
TSM0A503^395*	50			3950						
TSM0A683^405*	68			4050						
TSM0A104^39H*	100			3975						
TSM0A224^405*	220			4050						
TSM0A474^409*	470			4090						
TSM0B474^470*	470	5、10	25/50	4700	2、3					
TSM1A202^340*	2	1、2、3、 5、10	25/85	3400	1、2、3	210	Approx 2.1	Approx 3.1	-40~+125	
TSM1A222^34D*	2.2	5、10	25/85	3435						
TSM1B222^395*	2.2	5、10	25/50	3950						
TSM1A472^34D*	4.7	1、2、3、 5、10	25/85	3435						√
TSM1A472^367*	4.7			3670						√
TSM1A502^34D*	5			3435						√
TSM1A682^34D*	6.8			3435						
TSM1A682^430*	6.8	5、10		4300						
TSM1A103^34D*	10		25/50	3435						√
TSM1A103^39H*	10			3975						√
TSM1B103^425*	10		25/50	4250						
TSM1A123^380*	12		25/85	3800						
TSM1A153^395*	15			3950						
TSM1A223^39H*	22			3975						
TSM1A333^39H*	33			3975						
TSM1A473^39H*	47			3975						√
TSM1A503^39H*	50			3975						√
TSM1A683^39H*	68			3975						
TSM1A104^405*	100	1、2、3、 5、10	25/50	4050						√
TSM1B104^425*	100			4250						
TSM1A104^436*	100			4360						√
TSM1A154^406*	150			4060						√
TSM1A204^410*	200			4100						√
TSM1A224^410*	220		25/85	4100						√
TSM1A334^415*	330			4150						
TSM1A474^410*	470			4100						
TSM1B474^446*	470			25/50						4460

Note 1: ^ = Tolerance of R₂₅

Note 2: * = Tolerance of B value

*Special specification are available upon request

NTC Thermistors

SMD Thermistors



TSM Series

MERITEK

Electrical Characteristics

Part No.	Zero Power Resistance at 25°C	Tolerance of R ₂₅	B Value		Tolerance of B value	Max. Power Rating at 25°C	Dissipation Factor	Thermal Time Constant	Operating Temperature Range	Safety Approvals
	R ₂₅ (KΩ)	(±%)	(K)		(±%)	P _{max} (mW)	δ(mW/°C)	τ(Sec.)	T _L ~T _U (°C)	UL
TSM2A102^320*	1	1、2、3、5、10	25/85	3200	1、2、3	240	Approx 3.2	Approx 5.4	-40~+125	√
TSM2A472^34D*	4.7			3435						
TSM2A502^34D*	5			3435						
TSM2A682^34D*	6.8			3435						
TSM2A103^34D*	10			3435						
TSM2A103^380*	10			3800						√
TSM2A103^39H*	10			3975						√
TSM2A153^395*	15			3950						
TSM2A203^395*	20			3950						
TSM2A223^380*	22			3800						
TSM2A223^39H*	22			3975						
TSM2A303^39H*	30			3975						
TSM2A473^39H*	47			3975						√
TSM2A503^39H*	50			3975						√
TSM2A683^39H*	68			3975						
TSM2A104^405*	100			4050	1、2、3	240	Approx 3.2	Approx 5.4	-40~+125	√
TSM2A204^410*	200			4100						√
TSM2A224^410*	220			4100						√
TSM3A472^34D*	4.7	1、2、3、5、10	25/85	3435	1、2、3	320	Approx 3.2	Approx 6.7	-40~+125	
TSM3A502^34D*	5			3435						
TSM3A103^34D*	10			3435						
TSM3A103^39H*	10			3975						
TSM3A223^39H*	22			3975						
TSM3A473^39H*	47			3975						
TSM3A503^39H*	50			3975						
TSM3A683^39H*	68			3975						
TSM3A104^405*	100			4050						
TSM3A204^410*	200			4100						
TSM3A224^410*	220			4100						
TSM3A474^425*	470			4250						

Note 1: ^ = Tolerance of R₂₅

Note 2: * = Tolerance of B value

*Special specification are available upon request