



TKS

Thinking Official Website New Function Introduction

Design Tool - Search by Cross Reference and Product Parameter

Prepared by TKS
Date Dec.20th 2022

Products

Applications

Design Tool

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Investor Relations

ESG

Contact Us

Cross Reference
Search

Search By Product
Parameter

Find “Cross
Reference Search”

Cross Reference Search

Type in the part number
from other manufacturer

NTCG163JF103FTDS



Search

Cross Reference Search



THINKING Part Number	Competitor Name	Competitor Part Number
TSM1C103F34D1R	TDK	NTCG163JF103FTDS

Click the most equivalent part number from Thinking to see more specification detail

TSM1C103F34D1R Auto

SMD Type NTC Thermistor for Temperature Sensing of
Automotive Applications

**Product series
and specification**

Product Detail	
Size	0603
R25, Resistance at 25°C (Kohm)	10
Tolerance of R25 (%)	1
B25/85 Value (K)	3435
Tolerance of B Value (%)	1
Max. Power Dissipation at 25°C (mW)	210
Dissipation Factor (mW/ °C)	2.1
Thermal Time Constant (sec)	3.1
Operating Temperature (Tmin~Tmax)(°C)	-50~+150

Product classification, safety certificate, and environmental status

Automotive Grade

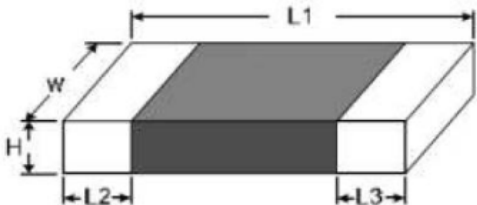
Yes

Approval

UL/cUL/TUV/CQC

Environmental

RoHS/HF/REACH

Part Number	Dimensions	Packing	Recommended Pattern	Electrical Characteristics												
<div><div></div><div><table><tr><th>Part No.</th><th>Size(EIA)</th><th>L1.</th><th>W</th><th>H max.</th><th>L2 & L3</th></tr><tr><td>TSM1</td><td>0603</td><td>1.60±0.15</td><td>0.80±0.15</td><td>0.95</td><td>0.40±0.15</td></tr></table></div></div>					Part No.	Size(EIA)	L1.	W	H max.	L2 & L3	TSM1	0603	1.60±0.15	0.80±0.15	0.95	0.40±0.15
Part No.	Size(EIA)	L1.	W	H max.	L2 & L3											
TSM1	0603	1.60±0.15	0.80±0.15	0.95	0.40±0.15											

Since the database material is still under accumulation, in case no available product is searched, please contact us directly for specification checking.

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Search By Product
Parameter

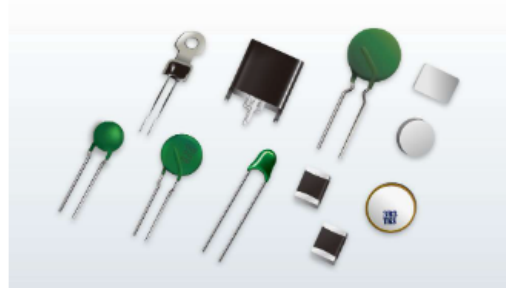
**Find “Search By
Product Parameter”**

Search by Product Parameter



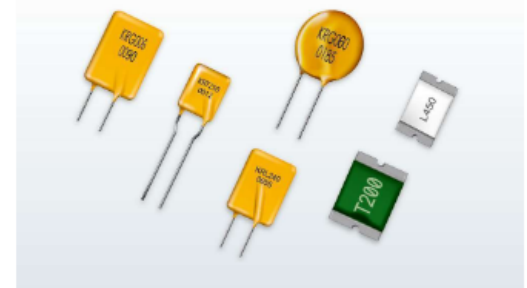
NTC Thermistor

- ▼ Inrush Current Limiting
- ▼ Temperature Sensing
 - SMD Type



Ceramic PTC Thermistor

- ▼ Inrush Current Limiting





Polymer PTC Thermistor


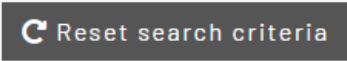
- ▼ Overcurrent Protection
 - Leded Type
 - SMD Type

Find a product you need

Product Parameters

Parameters	Search Criteria
Size	0603
Vmax (Vdc)(V)	Please select or all
Ihold (A)	Please select or all
Itrip (A)	Please select or all
Min. Initial Ri (Ohm)	Please select or all
Max. Post Trip R1 (Ohm)	Please select or all
Automotive Grade Product	Please select or all

 Search  Reset search criteria

Applicable Products: 16

Here indicates the quantity
of suitable part numbers

Product Parameters

Parameters

Size

Vmax (Vdc)(V)

Ihold (A)

Itrip (A)

Search Criteria

Please select or all

Please select or all

Please select or all

Please select or all

Product Parameters

Parameters

Size

Vmax (Vdc)(V)

Ihold (A)

Itrip (A)

Min. Initial Ri (Ohm)

Max. Post Trip R1 (Ohm)

Automotive Grade Product

Search Criteria

Please select or all

Please select or all

Please select or all

Please select or all






Please select or all

Please select or all

Please select or all






**Pull down for
search results**

Design Tool - Search by Product Parameter

Part Number	PDF	Product Picture	Product Category	Design	Size	Vmax (Vdc) (V)	Ihold (A)
KLM1S050RY	<input type="checkbox"/>		Polymer PTC Thermistor	SMD Low Resistance Type	0603	6	0.5
KLM1S050RY8	<input type="checkbox"/>		Polymer PTC Thermistor	SMD Low Resistance Type	0603	8	0.5
KLM1S075RY	<input checked="" type="checkbox"/>		Polymer PTC Thermistor	SMD Low Resistance Type	0603	6	0.75
KLM1S075RY8	<input type="checkbox"/>		Polymer PTC Thermistor	SMD Low Resistance Type	0603	8	0.75
KLM1S100RY	<input type="checkbox"/>		Polymer PTC Thermistor	SMD Low Resistance Type	0603	6	1


**Choose a part number
for catalogues**

Design Tool - Search by Product Parameter

Part Number	PDF	Product Picture	Product Category	Design	Size	Vmax (Vdc)(V)	Ihold (A)
KLM1S050RY	<input type="checkbox"/> PDF		Polymer PTC Thermistor	SMD Low Resistance Type	0603	6	0.5
KLM1S050RY8	<input type="checkbox"/> PDF		Polymer PTC Thermistor	SMD Low Resistance Type	0603	8	0.5
KLM1S075RY	<input checked="" type="checkbox"/> PDF		Polymer PTC Thermistor	SMD Low Resistance Type	0603	6	0.75
KLM1S075RY8	<input checked="" type="checkbox"/> PDF		Polymer PTC Thermistor	SMD Low Resistance Type	0603	8	0.75
KLM1S100RY	<input type="checkbox"/> PDF		Polymer PTC Thermistor	SMD Low Resistance Type	0603	6	1

Click "Export All" to extract an Excel file

 Download

 Export All

Design Tool - Search by Product Parameter

**All of the search results
could be checked in Excel file**

	A	B	C	D	E		All of the search results could be checked in Excel file							M	N	O	P
1	Manufacturer	THINKING Electronics															
2	Last Updated	December 20 2022															
3																	
4	"Product C:	THINKING	Design	Size	Vmax (Vdc)	Ihold (A)	Itrip (A)	Max. Time	Max. Time	Min. Initial	Max. Post	Operating	Automotive	Approval	Environmental		
5	SMD Type	KLM1S050	(SMD Low	O603	6	0.5	1	8	0.1	0.07	0.35	40~85	No	UL/cUL/TREACH & RoHs			
6	SMD Type	KLM1S050	(SMD Low	O603	8	0.5	1	8	0.1	0.07	0.35	40~85	No	UL/cUL/TREACH & RoHs			
7	SMD Type	KLM1S075	(SMD Low	O603	6	0.75	1.5	8	0.2	0.05	0.25	40~85	No	UL/cUL/TREACH & RoHs			
8	SMD Type	KLM1S075	(SMD Low	O603	8	0.75	1.5	8	0.2	0.05	0.25	40~85	No	UL/cUL/TREACH & RoHs			
9	SMD Type	KLM1S100	(SMD Low	O603	6	1	1.8	8	0.3	0.04	0.12	40~85	No	UL/cUL/TREACH & RoHs			
10	SMD Type	KLM1S100	(SMD Low	O603	8	1	1.8	8	0.3	0.04	0.12	40~85	No	UL/cUL/TREACH & RoHs			
11	SMD Type	KLM1S150	(SMD Low	O603	6	1.5	3	8	0.5	0.007	0.08	40~85	No	UL/cUL/TREACH & RoHs			
12	SMD Type	KLM1S150	(SMD Low	O603	8	1.5	3	8	0.5	0.007	0.08	40~85	No	UL/cUL/TREACH & RoHs			
13	SMD Type	KLM1S175	(SMD Low	O603	6	1.75	3.5	8	0.6	0.005	0.06	40~85	No	UL/cUL/TREACH & RoHs			
14	SMD Type	KLM1S175	(SMD Low	O603	8	1.75	3.5	8	0.6	0.005	0.06	40~85	No	UL/cUL/TREACH & RoHs			
15	SMD Type	KLM1S200	(SMD Low	O603	6	2	4	8	1	0.003	0.045	40~85	No	UL/cUL/TREACH & RoHs			
16	SMD Type	KMC1S010	(SMD Type	O603		0.1	0.3	0.5	1	0.9	6	40~85	No	UL/cUL/TREACH & RoHs			
17	SMD Type	KMC1S020	(SMD Type	O603		0.2	0.5	1	0.6	0.55	3.5	40~85	No	UL/cUL/TREACH & RoHs			
18	SMD Type	KMC1S025	(SMD Type	O603		0.25	0.55	8	0.08	0.5	3	40~85	No	UL/cUL/TREACH & RoHs			
19	SMD Type	KMC1S035	(SMD Type	O603		0.35	0.75	8	0.1	0.2	1	40~85	No	UL/cUL/TREACH & RoHs			
20	SMD Type	KMC1S035	(SMD Type	O603		0.35	0.75	8	0.1	0.2	1	40~85	No	UL/cUL/TREACH & RoHs			

THINKING

BEST CHOICE of

PROTECTIVE COMPONENTS

