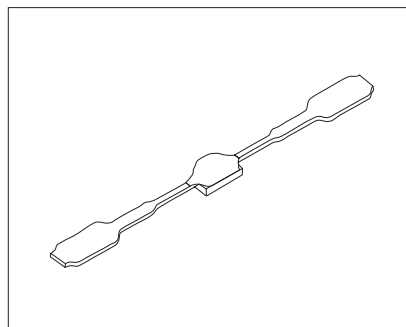


FL THERMISTOR

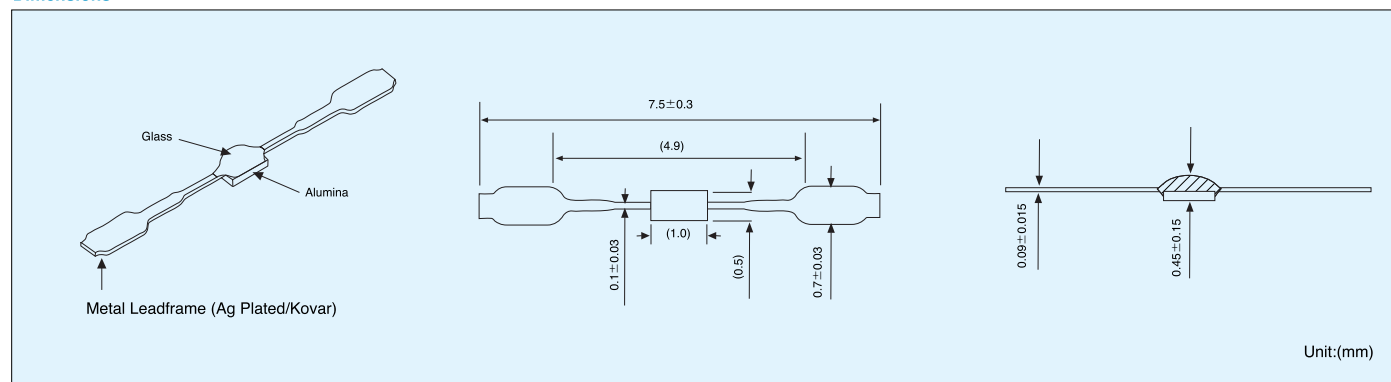
The FL Thermistor is developed on technology of the FT Thermistor. The FL Thermistor has "lead-wings" that makes mounting on the boards much easier.

Part number

503 FL	
503	FL-type thermistor
FL	Rated zero-power resistance at 25°C.:50kΩ



Dimensions



Specifications

Part No.	R	B value* ¹	Dissipation factor* ²	Thermal time constant* ²	Category temp. range
			(mW/°C) Approx.	(s) Approx.	(°C)
364FL	7kΩ±5% (at 180°C)	3370K±1.5%	0.4	1.5	-40~350
503FL	50kΩ±5% (at 25°C)				
103FL	10kΩ±5% (at 25°C)				

*1 : B-value: determined by zero-power resistance at 25°C and 85°C

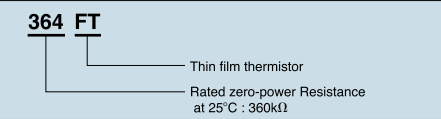
*2 : in still air

THIN FILM TYPE THERMISTOR

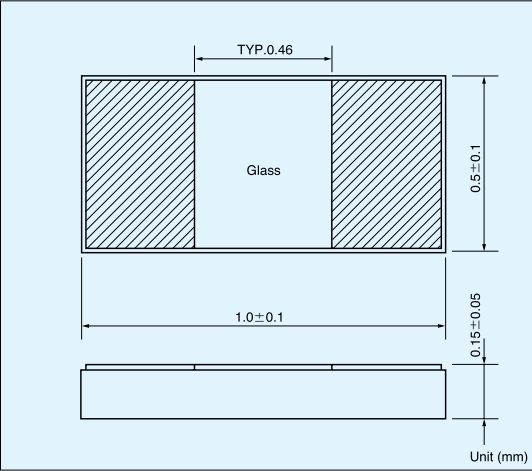
FT THERMISTOR

The FT thermistors, the highly reliable thermistors, are characterized by their fast response time, which was made possible by the miniaturization of the thermistor dimensions. FT thermistors are also heat-resistant type. FT thermistors are the most excellent products of today's chip thermistors manufacturing.

Part number



Dimensions



Electrode type	Connection method
Pt	Conductive resins
Au	Wire-bonding
Au/Ni	Solder

We can also custom-make FT THERMISTOR to better suit your applications. Please consult our sales staff.

Specifications

Part No.	R ₂₅ *1	B value*2	Dissipation factor (mW/°C) Approx.	Thermal time constant(s)*3 Approx.	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range(°C)
103FT	10kΩ±5%	3435K±1%	0.3	2.0	1.5	-40~250
103FT	10kΩ±5%	3370K±1%	0.3	2.0	1.5	-40~250
503FT	50kΩ±5%	3435K±1%	0.3	2.0	1.5	-40~250
503FT	50kΩ±5%	3370K±1%	0.3	2.0	1.5	-40~250
364FT	360kΩ±5%	3370K±1%	0.3	2.0	1.5	-40~250

*1 R₂₅ : Rated zero-power resistance value at 25°C.
*2 B value : determined by rated zero-power resistance at 25°C and 85°C.
*3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.

Resistance-Temperature

Temperature (°C)	P/N					Temperature (°C)	P/N				
	103FT		503FT		364FT		103FT		503FT		364FT
	B=3370K	B=3435K	B=3370K	B=3435K	B=3370K		B=3370K	B=3435K	B=3370K	B=3435K	B=3370K
-40	187.9	200.7	939.3	1002	6763	110	0.8003	0.7662	4.002	3.829	28.81
-30	110.7	117.0	553.4	584.7	3984	120	0.6345	0.6064	3.172	3.029	22.84
-20	67.26	70.34	336.3	351.9	2421	125	0.5671	0.5418	2.836	2.706	20.42
-10	42.10	43.55	210.5	217.7	1516	130					18.30
0	27.07	27.71	135.3	138.5	974.8	140					14.81
10	17.86	18.11	89.31	90.48	643.0	150					12.09
20	12.07	12.12	60.33	60.58	434.4	160					9.963
25	10.00	10.00	50.00	50.00	360.0	170					8.274
30	8.332	8.299	41.66	41.50	299.9	180					6.925
40	5.871	5.804	29.36	29.03	211.4	190					5.837
50	4.216	4.139	21.08	20.70	151.8	200					4.954
60	3.081	3.006	15.40	15.04	110.9	210					4.232
70	2.288	2.220	11.44	11.11	82.36	220					3.636
80	1.725	1.666	8.623	8.331	62.09	230					3.142
90	1.318	1.269	6.592	6.344	47.46	240					2.731
100	1.021	0.9797	5.105	4.898	36.76	250					2.385

Unit (kΩ)