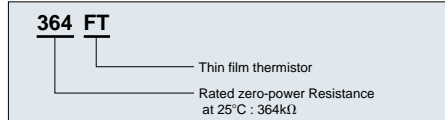


THIN FILM TYPE THERMISTOR

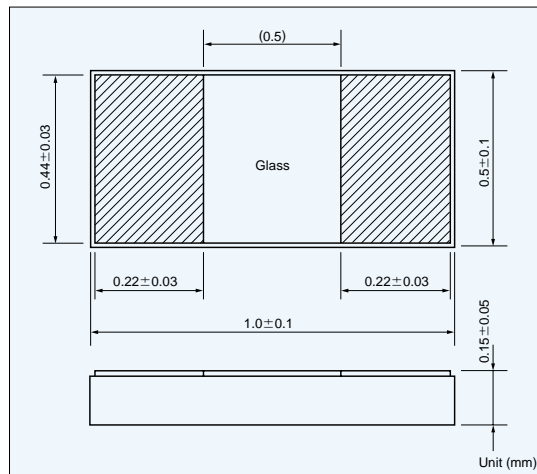
FT THERMISTOR

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



Connect the FTs to the electrodes with using conductive epoxy resins.
The FTs cannot be soldered onto the electrodes.

Specifications

Part No.	R ₂₅ *1	B value*2	Dissipation factor (mW/°C)	Thermal time constant (s)*3	Rated power at 25°C (mW)	Operating temp. range (°C)
103FT	10kΩ ± 5%	3435K ± 1%	0.3	2.0	1.5	-20 ~ 125
103FT	10kΩ ± 5%	3370K ± 1%	0.3	2.0	1.5	-20 ~ 125
503FT	50kΩ ± 5%	3435K ± 1%	0.3	2.0	1.5	-20 ~ 125
503FT	50kΩ ± 5%	3370K ± 1%	0.3	2.0	1.5	-20 ~ 125
364FT	364kΩ ± 5%	3370K ± 1%	0.3	2.0	1.5	-20 ~ 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
-20	67.26	70.34	336.3	351.9	2447	120	0.6345	0.6064	3.172	3.029	23.09
-10	42.10	43.55	210.5	217.7	1532	125	0.5671	0.5418	2.836	2.706	20.64
0	27.08	27.71	135.4	138.5	985.4	130					18.50
10	17.86	18.11	89.31	90.48	650.0	140					14.97
20	12.07	12.12	60.33	60.58	439.1	150					12.23
25	10.00	10.00	50.00	50.00	363.9	160					10.07
30	8.332	8.299	41.66	41.50	303.2	170					8.364
40	5.871	5.804	29.36	29.03	213.7	180					7.000
50	4.216	4.139	21.08	20.70	153.4	190					5.901
60	3.081	3.006	15.40	15.04	112.1	200					5.008
70	2.288	2.220	11.44	11.11	83.25	210					4.277
80	1.725	1.666	8.623	8.331	62.76	220					3.676
90	1.318	1.269	6.592	6.344	47.98	230					3.177
100	1.021	0.9797	5.105	4.898	37.15	240					2.760
110	0.8003	0.7662	4.002	3.829	29.12	250					2.411

Unit (kΩ)