

# FT Thermistor Series (thin-film type)

## FT THERMISTOR

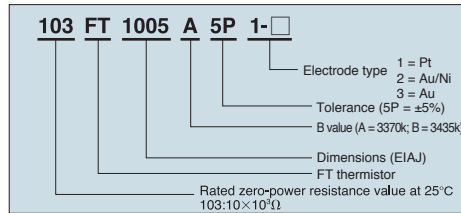
FT thermistors have outclassed conventional thermistors featuring quick response time, high heat resistance and reliability through miniaturization.

### Applications

Office automation, measurement instruments, medical instruments, security, LCD, laser diode modules



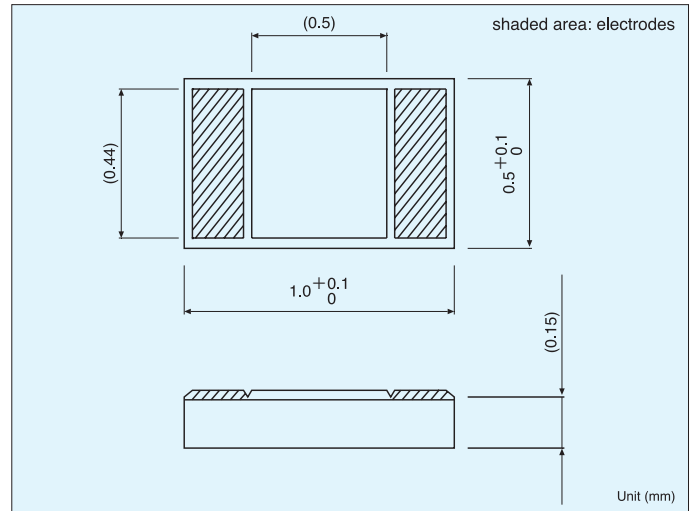
### Part number



	Electrode type	Connection method	Temperature range in use (°C)
1	Pt	Conductive resins	-40~+250(+350)
2	Au/Ni	Solder	-40~+125
3	Au	Wire-bonding	-40~+250

Please contact us for custom-made FT thermistors.

### Dimensions



### Specifications

Part No.	R <sub>25</sub> *1	B value*2	Dissipation factor (mW/°C) Approx.	Thermal time constant (s)*3 Approx.	Rated maximum power dissipation (at 25°C) (mW)
103FT1005	10kΩ±5%	3435K±1%	0.3	1.0	1.5
		3370K±1%			
503FT1005	50kΩ±5%	3435K±1%			
		3370K±1%			
364FT1005	360kΩ±5%	3370K±1%			

\*1: 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 necessary to reach 63.2% of temperature difference. Measured in still 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)