

PRODUCT	NTC Thermistor Sensor									
SERIES	JFR Series									
PART NO.										
QUICK	PARAMETER	VALUE	UNIT							
REFERENCE	Resistance Value R25	10~ 33	ΚΩ							
DATA	B25/50	3380~3950	К							
	B25/85	3435~4050	К							
ISSUE DATE	2023/2/4 所有									
REVISION DATE	2023/2/4	रिंसू मेत								
REFERENCE NO.	PS/									
	PASSIVE SYSTEM AN									
RoHS COM	PLIANCE ITEM	TTO ALL RIGHT								
Halog	gen Free	0,110.								

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## **NTC Sensor Specialty JFR series**



#### Features

RoHS / Halogen-Free (HF) compliant Accuracy Operating temperature range: -40 $^\circ\!\mathrm{C}$  ~+ 100 $^\circ\!\mathrm{C}$  Agency recognition: UL / TUV

#### Applications

IT equipment Mobile devices Battery packs



高精度

符合 RoHS / Halogen-Free (HF)規範

工作溫度範圍:-40℃~+100℃

安規認證: UL/TUV

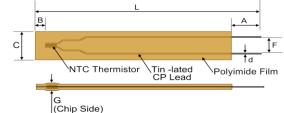
#### How to Order

	Part Number Code																		
1	2	3	4	5	6	7	810	PASSI	/e <b>10</b> /s	- <b>11</b>	12	13	14	15	16	17	18	19	20
J	F	R	1	0	3	F	3	4	4	F	В	2	5	0	5	0	С	Ρ	G
	1			2		3	GH	4		5	6	SH J	D		8		(J	Ð	10
	Prov V Dielectrics Berlin																		

				SDIN	DIEIEC	111		
1	Product Type	JFR series	(5)	Tolerance of B Value	F = ±1% G = ±2%	9	Soldered Length	CP = 5.0mm ± 1.0 mm
2	Zero Power Resistance @25°C (R25)	103 = 10ΚΩ	6	Definition of B Value	A = 25/50 B = 25/85	10	Optional Suffix	Internal Control Code
3	Tolerance of R25	F = ±1% G = ±2% H = ±3% J = ±5%	$\bigcirc$	Lead Diameter	25 = Ø0.25mm			
4	B Value	344 = 3435 K	8	Lead Length	025 = 25 mm 050 = 50 mm			



## **Structure and Dimension**



(chip clac)				Unit in mm			
ITEM	A±1.0	B±0.5	C±0.5	L±1.0	F±0.20	G max	d±0.02
JFR103F344FB25025CPG	5.0	2.0	4.0	25	1.55	0.6	0.25
JFR103F344FB25050CPG	5.0	2.0	4.0	50	1.55	0.6	0.25

### **Electrical Characteristics**

Part No	Zero Power Resistance at 25 °C	Tolerance of R25	B25/50 Value	Tolerance of B Value	Dissipation Factor	Thermal Time Constant	Max. Power Rating at 25 °C	Safet Approv	-
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	т (sec.)	(mW)	c <b>RL</b> us	$\triangle$
JFR103X338YA	10,000	10,5,3,1	3380	5,3,1	Approx. 1.6	Approx. 3.4	3.5		
JFR103X395YA	10,000	10,5,3,1	3950	5,3,1	Approx. 1.6	Approx. 3.4	3.5		
				PSA					

		OPU	Pro		<i>to</i>	KVFI			
Part No	Zero Power Resistance at 25 °C	Tolerance of R25	B25/85 Value	Tolerance of B Value	Dissipation Factor	Thermal Time Constant	Max. Power Rating at 25 °C	Safet Approv	
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	т (sec.)	(mW)	c <b>RV</b> us	$\triangle$
JFR103X344YB	10,000	10,5,3,1	3435	5,3,1	Approx. 1.6	Approx. 3.4	3.5	-	•
JFR103X398YB	10,000	10,5,3,1	3980	5,3,1	Approx. 1.6	Approx. 3.4	3.5		
JFR103X405YB	10,000	10,5,3,1	3980	5,3,1	Approx. 1.6	Approx. 3.4	3.5		
JFR333X405YB	33,000	10,5,3,1	3980	5,3,1	Approx. 1.6	Approx. 3.4	3.5		

X : R Tolerance, Y : B Value Tolerance





# **Reliability-NTC Thermistor JFR**

Test description	Standard	Test condition	Specifications		
		Gradually applying the force specified and keeping the unit fixed for 10±1 sec.			
		Terminal diameter (mm) Force (Kg)			
Tensile Strength	IEC 60068-2-21	d $\leq$ 0.25mm 1N (0.102Kg)	No visible damage		
of Terminal		$0.25 \text{mm} < \text{d} \le 0.35 \text{mm}$ 2.5N (0.255Kg)			
		$0.35 \text{mm} < \text{d} \le 0.50 \text{mm}$ 5N (0.510Kg)			
		<b>0.50mm</b> $< d \leq 0.80mm$ <b>10N (1.02Kg)</b>			
		Hold specimen and apply the force specified below to each			
		lead. Bend the specimen to 90°, then return to original position.			
		Repeat the procedure in the opposite direction.			
Bending Strength	IEC 60068-2-21	K ~ 资料技船~~~~~	No visible damage		
of Terminal		Terminal diameter (mm) Force (Kg)			
		d ≤ 0.25mm 0.5N (0.051Kg)			
		$0.25 \text{ mm} < d \le 0.35 \text{ mm}$ 1.25N (0.128Kg)			
		0.35mm <−d ≤ 0.50mm 2.5N (0.255Kg)			
		0.50mm < d ≤ 0.80mm 5N (0.510Kg)	At least 95% of terminal		
Solderability	IEC 60068-2-20	245±3°C, 3±0.3 sec	electrode is covered by		
Soluciusiity		Dielectrics ALRS	new solder		
Resistance to		UELECTRICS CO. 1.0.	A 205 (205 < 150)		
soldering heat	IEC 60068-2-20	260±3℃,10±1 sec	<b>△R25/R25</b> ≦±5%		
Dry heat	IEC 60068-2-2	100±5°C, 1000±24hrs	No visible damage		
			<b>△R25/R25≦±5%</b>		
Damp heat,	IEC 60068-2-78	40±2°C , 90∼95% RH, 1000±24hrs	No visible damage		
Steady State			<u></u>		
		The conditions shown below shall be repeated 5 cycles.			
Rapid change of		Step Temperature (°C) Period (minutes)	No visible damage		
temperature	IEC 60068-2-14	1 -40±5 30±3			
		2 Room temperature 5±3			
		3 100±5 30±3			
		4 Room temperature 5±3			
Room	IEC 60539-1	25±5℃ , Pmax, 1000±24hrs	No visible damage		
temperature load			$\triangle$ R25/R25 $\leq$ ±5%		

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