



Sl.no	Sensor Length	JRSET Part No	Internal Code
3	500mm	NTED103C/R1L501	13ED013
2	300mm	NTED103C/R1L351	13ED012
1	100mm	NTED103C/R1L101	13ED011

Testing Description	Result	Testing Condition
Temperature cycling	$\Delta R/R \pm 25^{\circ}C \pm 1\%$ $\Delta B/B^{\circ}C \pm 1\%$	-30°c for 30min (coolant) → RT for 3minutes → +100°c for 30min (water) - 100 cycles
High temperature storage		1000 hours at 100±2°c in air.
Low temperature storage		1000 hours at -30±2°c in air.
Humidity test with BIAS		1000 hours at 40±2°c, 90% to 95%RH.
Drop test	$\Delta R/R \pm 25^{\circ}C \pm 1\%$ $\Delta B/B^{\circ}C \pm 1\%$ and No visual or mechanical damage	Height of 1m drop on concrete floor for 10 times. Frequency: 10 -55Hz, Amplitude Modulation: 1.52mm Duration : 1 min. Direction : X, Y & Z, Duration : for 2hrs.
Vibration test		

Sl.no	Description	Indication	Test Condition	Min	Max	Unit	
8	Operating Range	---	---	-20	+85	°C	
7	Maximum Power Rating	---	T=25±0.02	---	10.0	mW	
6	High Voltage	---	1000V AC	---	---	---	
5	Insulation	IR	500V DC	---	>100	MΩ	
4	Thermal Time	T	T=25/85°c	---	20.0	Sec	
3	Thermal Dis.	δ	T=25±0.02	---	2.0	mW/°C	
2	B-Constant	---	4098 ln(R1/R2)	3937	3977	k	
1	Resistance	R25	T=25±0.02	9.900	10.000	10.100	KΩ

Functional Requirements / Specifications

Sl.no	PART NAME	PART NUMBER	RM Spec. No
3	Epoxy - Black	Epoxy Dipping Resin	RM-DE-LOC-2601 RM-DE-IMP-2501
2	Cable	24AWG Black PVC insulated Twin parallel wire 105°C	RM-C-TP-PVC-1421
1	NTC Water	10KΩ	RM-W-NC-GEN-1102 & 1113

Bill of Materials



REV. NO.	MODIFICATION DETAILS	DATE	SIGN
ALL DIMENSIONS ARE IN *MM* UNLESS OTHERWISE SPECIFIED			
TOLERANCES UNLESS OTHERWISE STATED	SHEET 1 OF 1	SCALE: NTS	CUSTOMER PART NO.
LINER DIMENSION	ANGLE DRAWN	DATE	CUSTOMER REV. NO. & DATE
±0.8	CHECKED	EPD	
±1.5°	APPROVED SIGN & DATE	HPD	DRAWING PART NO.
		PART NAME:	
JR Sensing & Electronics NTC Thermistor - Epoxy Dipped		INTERNAL CODE NO.	