

2252 Ohm to 30K Ohm  
Resistance @ 25°C  
Flight Qualified  
Interchangeability  
High Sensitivity  
Pressed Disk Key Characteristics



## 44900 SERIES THERMISTORS

NASA Qualified epoxy encapsulated precision interchangeable NTC thermistors for use in extended space flight applications. All parts are fully flight tested and characterized. Line re-qualified yearly per MIL-PRF-23648 requirements as specified in S311-P18 document. All S311-P18 lead options wire options available.

## FEATURES

- Flight Qualified
- 2252 Ohm to 30K Ohm Resistance @ 25°C
- Interchangeability to  $\pm 0.1^{\circ}\text{C}$
- High Sensitivity
- Thermally Conductive Epoxy Coating Exhibits <0.66% TML, <0.01% CVCM, 0.10% WVR when tested per ASTM E-

## APPLICATIONS

- Extended Space Applications
- Low and Mid Range Temperature Applications
- Tight Tolerance Instrumentation
- Applications Requiring Sensing Small Changes in Temperature
- Applications with Outgassing Requirements

## testing

Requalification includes the following tests referenced in MIL-PRF-23648

- Short time load
- Thermal shock
- Insulation resistance
- Resistance to soldering heat
- Low-temperature storage
- High-temperature storage
- Dissipation constant
- Thermal time constraint
- Terminal strength
- Moisture resistance
- High-temperature exposure
- Medium-impact shock
- Immersion

# 44900 Series Thermistor Components

## product definition

	Part Number	GSFC S311-P18 Number	Basic MEAS Thermistor	Zero Power Resistance ohm at 25°C	Beta 0- 50°C (K)	Operating & Storage Temperature*	Color Code Body	End
±0.2°C Interchangeability Tolerance 0 – 70°C	<a href="#">44901</a>	-01S7R6	44004	2252	3891	-55 -+ 90°C	Black	Yellow
	<a href="#">44903</a>	-03S7R6	44005	3000	3891	-55-+ 90°C	Black	Green
	<a href="#">44905</a>	-05S7R6	44007	5000	3891	-55 -+ 90°C	Black	Violet
	<a href="#">44907</a>	-07S7R6	44006	10K	3574	-55-+ 90°C	Black	Blue
	<a href="#">44909</a>	-09S7R6	44008	30K	3810	-55 -+ 90°C	Black	Gray
±0.1°C Interchangeability Tolerance 0 – 70°C	<a href="#">44902</a>	02S7R6	44033	2252	3891	-55 -+ 70°C	Orange	Orange
	<a href="#">44904</a>	-04S7R6	44030	3000	3891	-55 -+ 70°C	Orange	Black
	<a href="#">44906</a>	-06S7R6	44034	5000	3891	-55 -+ 70°C	Orange	Yellow
	<a href="#">44908</a>	-08S7R6	44031	10K	3574	-55 -+ 70°C	Orange	Brown
	<a href="#">44910</a>	010S7R6	44032	30K	3810	-55 -+ 70°C	Orange	Red

\* Thermistors with ±0.2°C interchangeability tolerance may have short-term operating temperature excursions to 150°C  
Thermistors with ±0.1°C interchangeability tolerance may have short-term operating temperature excursions to 100°C

## 联系方式



深圳市亿为测控电子有限公司  
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.

广东省深圳市南山区创业路怡海广场东座2407 邮编：518000

电话：+86 755 2641 9890 传真：+86 755 2641 9680

电子邮箱：sales@bill-well.com

www.bill-well.com

深圳市亿为测控电子有限公司