



Testing

- Requalification includes the following tests referenced in MIL-PRF-23648
- Short time overload
- 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

SPECIFICATIONS

- 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 GSFC S-311-P-18 document. All GSFC S-311-P-18 lead options wire options available.

FEATURES

- Flight Qualified
- 2252 Ohm to 30K Ohm Resistance @ 25°C
- Interchangeability to $\pm 0.1^{\circ}\text{C}$
- Excellent High Temperature Performance
- High Sensitivity
- Thermally Conductive Epoxy Coating Exhibits $<0.66\%$ TML, $<0.01\%$ CVCM, 0.10% WVR when tested per ASTM E-595-90

APPLICATIONS

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

44900 SERIES THERMISTOR COMPONENTS

PRODUCT DEFINITION

	Part Number	GSFC S-3118-P-18 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°C – 70°C	44901	-01S7R6	44004	2252	3891	-55 -+ 90°C	Black	Yellow
	44903	-03S7R6	44005	3000	3891	-55 -+ 90°C	Black	Green
	44905	-05S7R6	44007	5000	3891	-55 -+ 90°C	Black	Violet
	44907	-07S7R6	44006	10K	3574	-55 -+ 90°C	Black	Blue
	44909	-09S7R6	44008	30K	3810	-55 -+ 90°C	Black	Gray
±0.1°C Interchangeability Tolerance 0°C – 70°C	44902	02S7R6	44033	2252	3891	-55 -+ 70°C	Orange	Orange
	44904	-04S7R6	44030	3000	3891	-55 -+ 70°C	Orange	Black
	44906	-06S7R6	44034	5000	3891	-55 -+ 70°C	Orange	Yellow
	44908	-08S7R6	44031	10K	3574	-55 -+ 70°C	Orange	Brown
	44910	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								

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