MELF-Style, Glass-Encapsulated

REACH RoHS



Description

The NSS series surface-mount, MELF-style, glass-encapsulated thermistors are manufactured using exceptionally stable NTC chips that are hermetically sealed in a glass package. MELF stands for Metal Electrode Leadless Face, which is a reference to a type of leadless cylindrical electronic surface mount device that is metallized at its ends. The NSS series consists of two terminals bonded into a cylindrical body. The result is an extremely reliable surface-mount package that can withstand the most severe environmental conditions. These thermistors exhibit excellent long-term reliability and stability and are well-suited for applications where their interchangeability eliminates the necessity for costly individual circuit calibration. Their uniform dimensions make them especially useful with automatic insertion equipment. These thermistors are very cost-effective and are available with options such as non-standard resistance values and tolerances, tape and reel packaging, and point-matching at specified temperatures for consistent performance.

Features

- Moisture proof
- Miniature/practical design
- Higher density for connections
- Excellent long-term stability
- High temperature capability to +220 °C
- Surface-mountable
- Low cost

Benefits

- High reliability
- Fast response time
- Efficient
- Cost-effective
- Superior mechanical performance
- Automated simplified production
- Consistent performance

Applications

- Consumer technology
- Household electronics
- Heating and air-conditioning
- Industrial electronics and automation
- High temperature printer ink sensing
- Printed circuit board temperature sensing



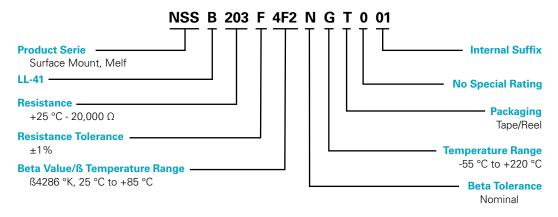
Specifications

PART NUMBER	RESISTANCE IN OHMS AT 25 °C (Ω)	RESISTANCE TOLERANCE ±%@25°C	BETA K 0–50 °C	OPERATING TEMPERATURE MAX °C	TEMPERATURE COEFFICIENT @ 25 °C	RESISTANCE- TEMPERATURE CURVE
NSSB203F4F2NGT001	20000	1	-	220	-	R
NSSM103K3T1NGT001	10000	10	3892	220	-4.4% / °C	J
NSSM103M3T1NHT001	10000	Nom	3892	220	-4.4% / °C	J

Certification & Compliance

REACH	Reach Regulation (EC) No. 1907/2006
RoHS	RoHS 2 Directive 2011/65/EU; Directive (EU) 2015/863

Part Numbering System



Ordering Information

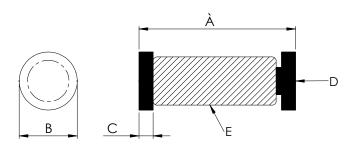
CATALOG NUMBER	PACKAGING	QUANTITY
NSSB203F4F2NGT001	Tape/Reel	5000 pcs, 1500 pcs
NSSM103K3T1NGT001	Tape/Reel	2500 pcs
NSSM103M3T1NHT001	Tape/Reel	2500 pcs

Electrical Specifications

RESISTANCE	RESISTANCE	TEMP, COEFFICIENT	BETA (K)	TEMP	THERMAL TIME	DISSIPATION
(25 °C) Ω	TOLERANCE, ±%	(%/°C)		RATING (°C)	CONSTANT (SEC)	CONSTANT (MW/°C)
1000 to 2000000	1 to 10	3.31 to 4.4	2000 ~ 5000	-40 ~ +220	8 Max	2~3



Dimensions Inches (mm)



А	В	С	D	E	
0.075" ± 0.008" to	0.049" ± 0.004" to	0.0075" ± 0.004" to			
0.197" ± 0.012"	0.096" ± 0.008"	0.016" ± 0.008'	Tinned Dumat Tab (2V)	Glass Encapsulation	
(1.905 ± 0.2032 mm to	(1.2446 to 0.1016 mm to	(0.1905 to 0.1016 mm to	Tinned Dumet Tab (2X)		
5.0038 ± 0.3048 mm)	2.4384 to 0.2032 mm)	2.4384 to 0.4064 mm)			

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