

SPECIFICATION AND PERFORMANCE

Series	101M-TEX0	File	101M-TEX0_SPEC_1	Date	2020-06-30
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 101M-TEX0

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIALS

NO.	PART NAME	DESCRIPTION
1	Housing	LCP UL 94V-0, Black
2	Contact	Phosphor Bronze, Gold plating over Nickel
3	SHELL	Stainless Steel
4	SLIDER	LCP, UL94V-0, Black
5	SPRING	SWP
6	LINK	Stainless Steel
7	CARD LOCK	Stainless Steel

RATING

Rated Voltage	5 V
Rated Current	0.5A
Operating Temperature	-25°C to +85°C
Storage Temperature	-40°C to +85°C

ELECTRICAL

Item	Requirement	Test Condition
Contact Resistance	30 mΩ ΔR=25mΩ max.	Subject mated contacts assembled in housing to 20 mV max. open circuit at 10mA. EIA-364-23C
Insulation Resistance	1000 MΩ Min. at 500V DC/2 min.	Impressed voltage 500VDC for one minute, test between adjacent circuit EIA-364-21D
Dielectric Withstanding Voltage	No breakdown at 500V RMS	EIA-364-20D, Test method B

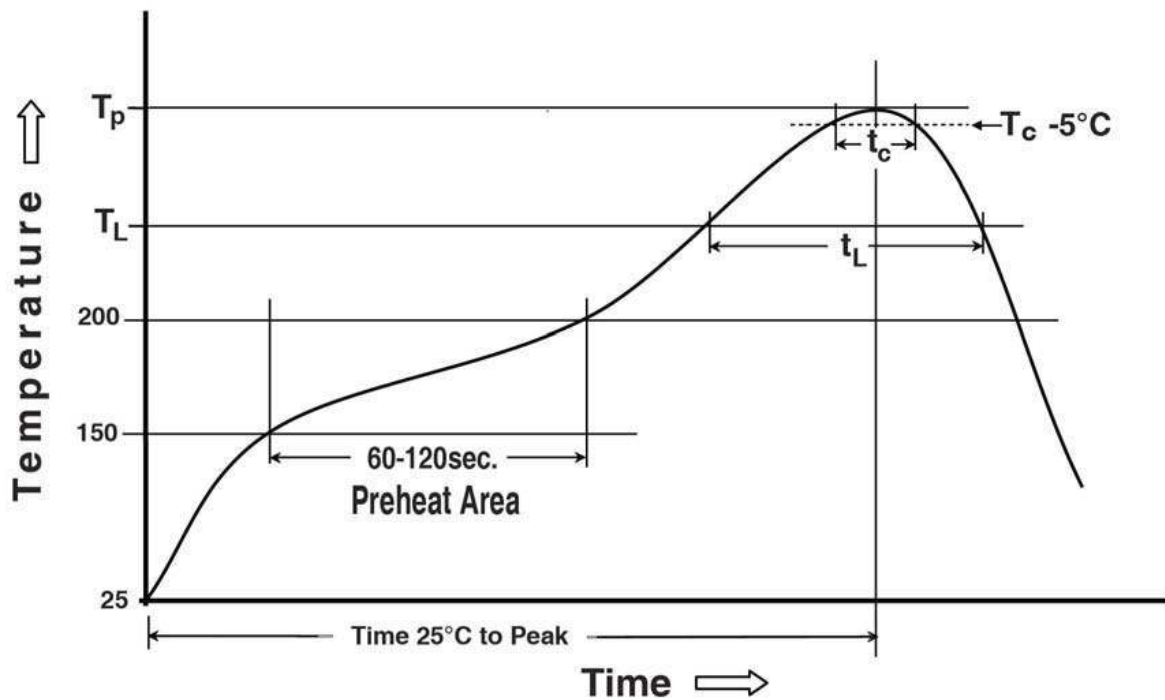


MECHANICAL		
Item	Requirement	Test Condition
Durability	12,000 Cycles Max.	EIA-364-09C
Insertion Force	25 N Max.	Speed 25±3 mm/minute
Removal Force	0.5 N Min. and 20 N Max.	Speed 25±3 mm/minute
Card Reverse Insertion	50 N Min.	No damage is observed

ENVIRONMENTAL		
Item	Requirement	Test Condition
Humidity	Meets requirements of product drawing and electrical specification.	Ambient Temp.: 40±3°C R. H.: 90 to 95% Duration: 96hrs. EIA-364-31B method II Condition A
Salt spray	Meets requirements of product drawing and electrical specification.	Temperature: 35°C±2°C Density of salt water: 5±1% Period: 48 hours
Low Temperature	Meets requirements of product drawing and electrical specification.	Chamber Temperature: -40±3°C Duration: 96 hours EIA-364-59A
Temperature Life	Meets requirements of product drawing and electrical specification.	Chamber Temperature: 105±3°C Duration: 96 hours EIA364-17

SOLDER ABILITY		
Item	Requirement	Test Condition
Solder ability	The test area shall be covered more than 95% of immersed area with flash solder	Solder Temperature: 245°C±5°C Immersion Period: 5±0.5sec.

Reflow Profile



Preheating temperature: 150 ~ 200°C, 60~120 seconds

Liquidus temperature (T_L): 217°C, 60~150 seconds

Peak temperature: 260°C

Time within 5 °C of peak temperature (T_c): 255°C, 30seconds