

MICON 5 SL, SMT 标准型, 2.5 ± 0.5 N, 1 常开

描述

MICON 5 SL 不适合汽车应用。.



MICON 5 短行程按钮是极为安全的开关组件，所需空间非常小。您可单独、并排或作为键盘排列。如在膜下使用，我们建议MICON5按钮带有柱塞，特性如下：

- › 适用于重要的焊接技术
- › 波焊槽用于THT版本
- › 回流焊接用于SMT版本
- › 蒸汽相焊接用于SMT版本
- › 手焊
- › 使用SMT自动放置机处理SMT版本
- › IMDS-输入
- › 包装在泡泡带里，每卷2.100件
- › 模板印刷建议：150微米模板，焊盘面积减少10%



技术参数

› 一般

工作温度, 最低	-40 °C	直接链接
工作温度, 最高	125 °C	› RAFI eCatalog
存储温度, 最低	-40 °C	
存储温度, 最高	90 °C	
可发光	否	
焊接技术	回流	
焊接耐热强度, 根据标准	DIN EN 60068-2-58 DIN EN 61760-1	
包装	透明塑料	
包装数量	2,100 碎片	
使用寿命	10,000,000 次	
正面防护方式遵照DIN EN 20653	IP67 (IP6K7)	
后面的保护等级符合ISO 20653标准	IP67 (IP6K7)	
MSL Moisture Sensitivity Level	1	
抗冲击性, 遵照IEC 60068-2-27标准	100g在6ms振幅半正弦	
抗振强度遵照IEC 60068-2-6标准	10...500 Hz为5克	
最低订购量 (MOQ)	2,100 碎片	
RoHS 一致性	是	

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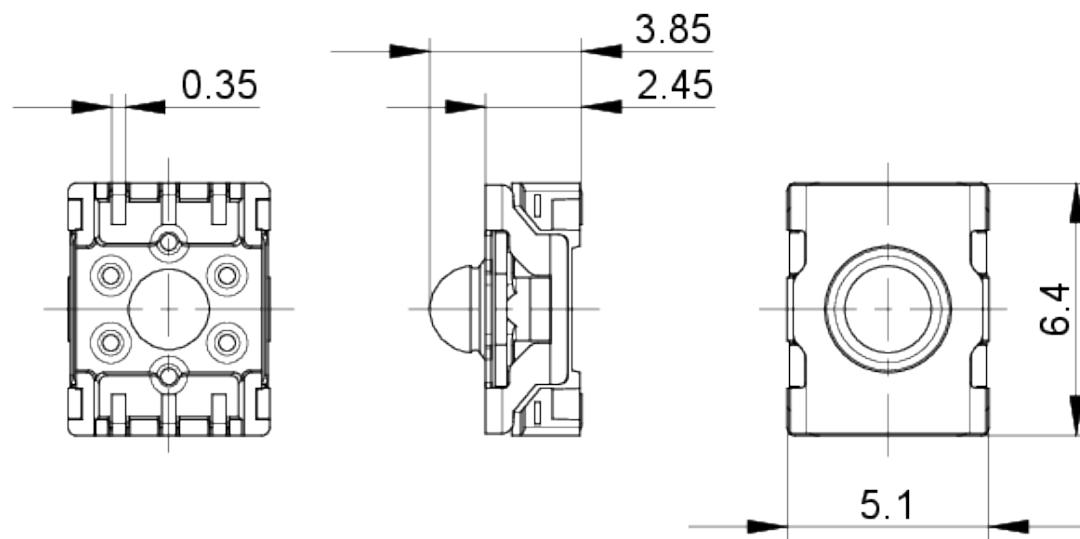
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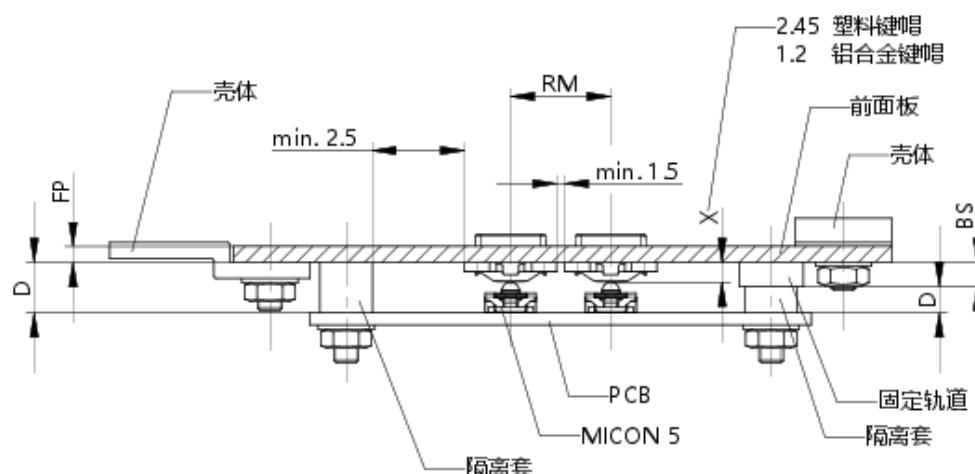
REACH 一致性	是
› 安装尺寸	
外径尺寸	6.4 ± 0.1 毫米
外径尺寸	5.1 ± 0.1 毫米
安装高度	3.85 ± 0.1 毫米
矩阵安装间距, 最少	6 x 7.8 毫米
› 机械特性	
操作功能	触感的
操作力, 最大	4 N
操作力, 最小	2.5 ± 0.5 N
行程	0.7 ± 0.15 毫米
10毫米/秒的弹跳时间	<5 ms
触点功能	1 常开
触点系统	跳跃式触点
触点材料	SPST - Single Pole Single Throw
可焊接性	金
背面端子	是
SMT	
› 电气特性	
额定电压, 最小	0.02 V
额定电压, 最大	35 V
抗电强度	250 V
额定电流, 最小	0.00001 A
额定电流, 最大	0.1 A
额定功率, 最大	1 Watt

图纸

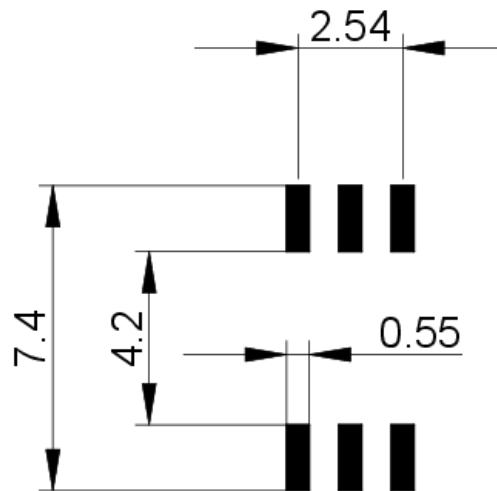
尺寸图



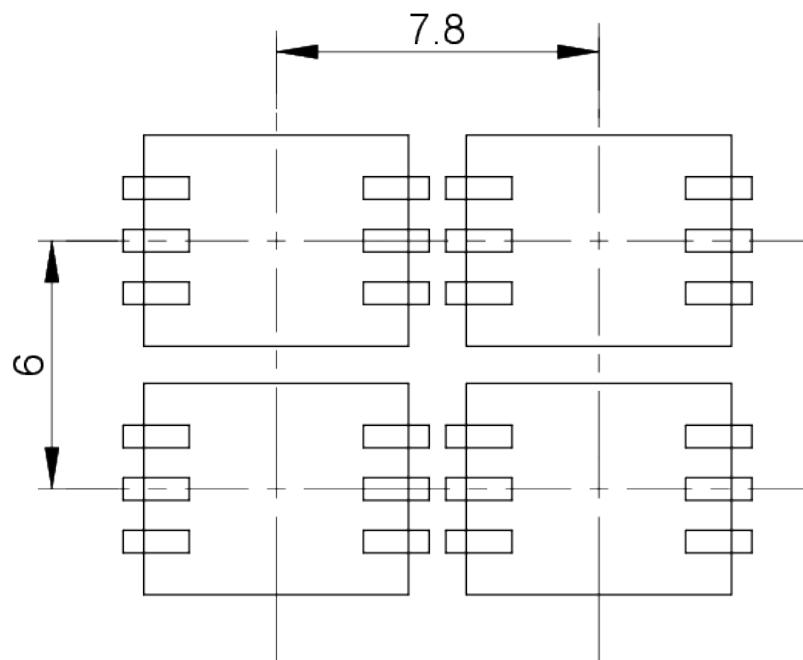
系统示意图



PCB示意图

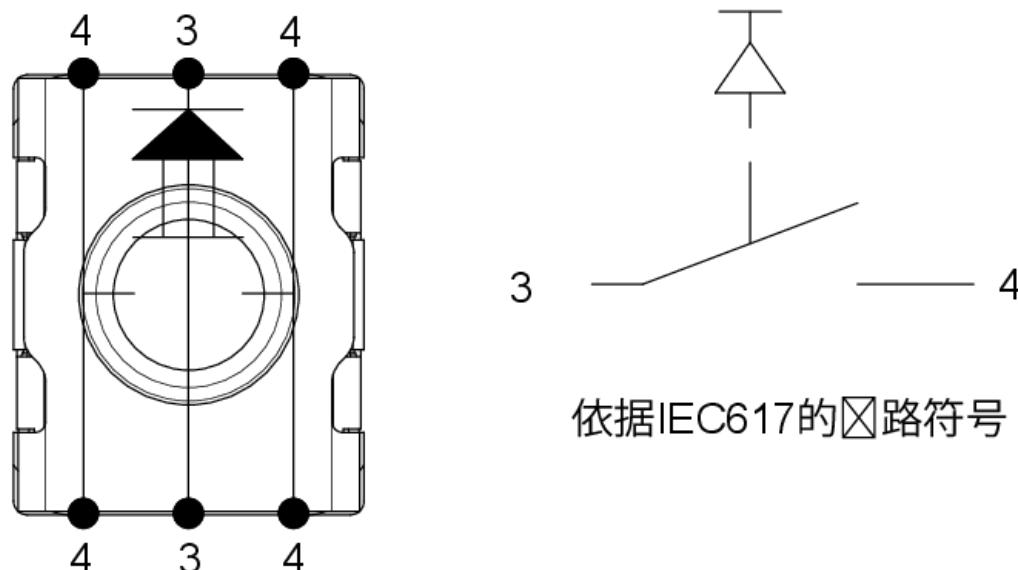


PCB示意图

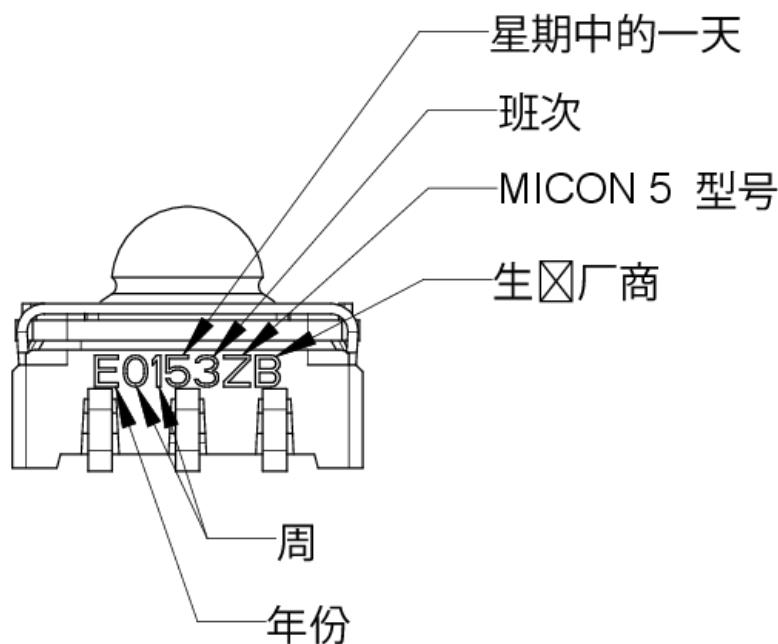


MICON 5 SMT

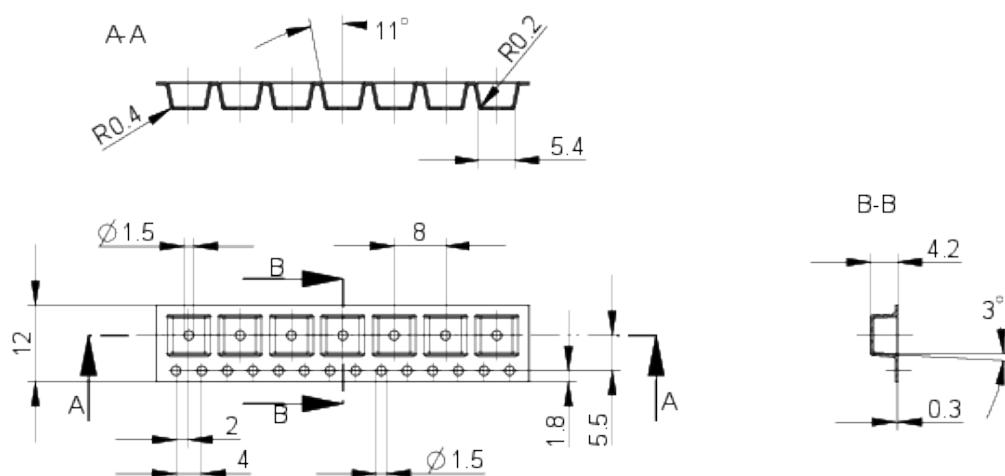
原理图



产品标签图



包装示意图



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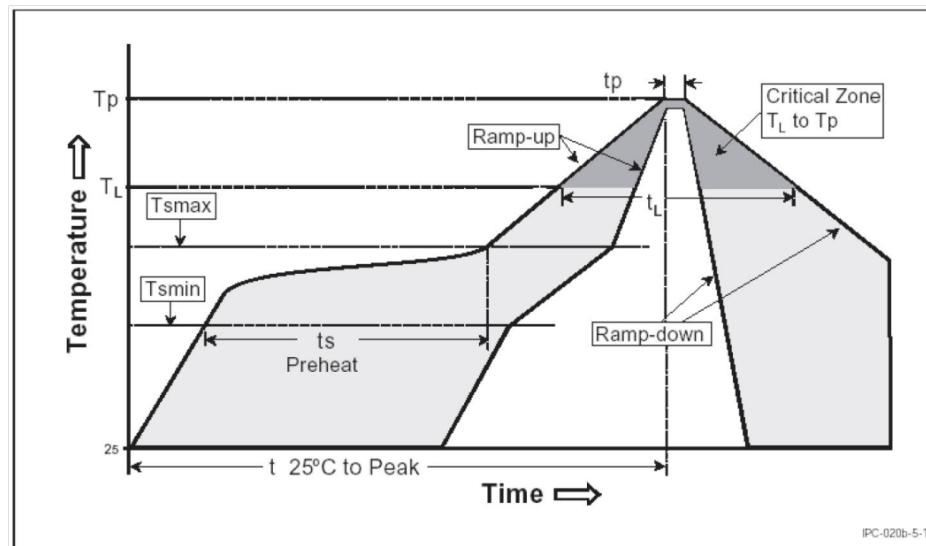
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安装

RAFI soldering profile for ROHS compliant reflow components



Publication date: October 7, 2021



Parameter	RAFI values
Gradient (T_L to T_p)	max. 3°C / s
Preheating zone	
Minimum temperature (T_{smin})	150°C
Maximum temperature (T_{smax})	200°C
Time (from min. to max.) (t_s)	60 - 120 s
Gradient (T_{smax} to T_L)	max. 3°C / s
Time over melting temperature (T_L) time (t_L)	217°C 60 - 150 s
Peak temperature (T_p)	max. 260°C (+0°C)
Time within peak temperature - 5°C (t_p)	20-40 s
Gradient ramp down	max. 6°C / s
Time difference from 25°C to peak temperature	max. 8 minutes

The reflow soldering profile is based on the definition of Jedec J-STD-020D.

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Media Robust Electronics

Publication date: February 13, 2025

MICON 5 S, SL and SAFETY

Valid for all variants MICON 5 S 1.14.005., MICON 5 SL 1.14.105. and MICON 5 SAFETY 1.14.205.

Recommended potting compounds

WEVO-CHEMIE GmbH

WEVOPUR 7210 FL/WEVONAT 507

Important note

Maximum potting height B must not be exceeded.

Recommended circuit board protection

Lackwerke Peters GmbH & Co.KG

combination of high-viscosity (HT-T)
and low-viscosity coating from the
ELPEGUARD® SL 1307 family

Lackwerke Peters GmbH & Co.KG

ELPEGUARD® SL 1800

Important note

The conformal coating of our tactile switches must be tested in the final application. Coating that enters the tactile switch does not harden directly, so that any resulting malfunction can only be detected later.

If the tactile switch is completely coated, the coating may peel off the elastomer of the tactile switch during the first few actuations. Press the tactile switch only after the coating has hardened.

We recommend leaving out the elastomer area when coating to prevent detachment.

General remark

The suitability and use of the recommended media for potting, conformal coating and nano-coating must be qualified and approved in the final application.

The potting, conformal coating and nano-coating must be used in accordance with the manufacturer's technical data sheet.

Actuation of the tactile switch only after the potting compound, conformal coating and nano coating has complete hardened.

Other potting compounds and processes for printed circuit board protection on request.

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