1.14.002.201/0000

MICON 5, SMT Standard, 1,5 ± 0,3 N, 1 S



Haupt- / Anwendungsgebiete

- Messen-Steuern-Regeln
- Maschinen- und Anlagenbau
- Automotive
- Elektromedizin

Spezielle Features

- Goldkontakte, sicheres Schalten bei niedrigen Strömen
- Besonderes taktiles Feedback
- Hohe Packungsdichte durch kleinen Formfaktor (5,1 x 6,4 mm)
- Unterschiedliche Betätigungskräfte
- Ring- und Vollausleuchtung der Tastenfläche durch Stößel
- Variable Bauhöhen durch Stößel
- Anschlusstechnik: SMT
- Traceability durch Produktkennzeichnung nach DIN EN ISO 9001

CE

Beschreibung

Die MICON 5 Kurzhubtaster sind extrem schaltsichere Bauelemente mit sehr geringem Platzbedarf. Sie können einzeln, in Reihen oder als Tastenfelder angeordnet werden. Für den Einsatz unter Folie empfehlen wir die MICON 5-Taster mit Stößeln zu kombinieren.Die Eigenschaften auf einen Blick:

- Geeignet für die wichtigsten Lötverfahren
- Wellen-Lötbad für THT-Versionen
- Reflow-Löten für SMT-Versionen
- Dampfphasen-Löten für SMT-Versionen
- Handlötung
- Verarbeitung der SMT-Ausführung mit SMT-Bestückungsautomaten
- IMDS-Eintrag

- Verpackung im Blistergurt, Spule mit 2.100 Stück
- Vorschlag für Schablonendruck: 150 µm-Schablone mit 10% Pad-Verkleinerung auf Fläche

Der Taster 1.14.002.201/0000 bietet keine taktile und akustische Rückmeldung. Er wird deshalb meistens nur als redundanter Zusatzschalter zu anderen MICON-Standard-Tastern verwendet, wenn dies aus Sicherheitsgründen gefordert ist.

Technische Daten

Allgemein

Arbeitstemperatur, min.	-40 °C
Arbeitstemperatur, max.	90 °C
Lagertemperatur, min.	-40 °C
Lagertemperatur, max.	90 °C
beleuchtbar	nein
Lötverfahren	Reflow

Direkte Links

- RAFI eCatalog

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Lötwärmebeständigkeit nach	DIN EN 60068-2-58
Norm	DIN EN 61760-1
Verpackung	Blister
Verpackungseinheit	2.100 Stück
Nettogewicht	0,3 g
Lebensdauer	1.000.000 Zyklen
B10	1.300.000 Zyklen
MSL Moisture Sensitivity Level	1
Schockfestigkeit gem. Norm IEC 60068-2-27	100 g bei 6 ms Amplitude halbsinusförmig
Schwingbeständigkeit gem. Norm IEC 60068-2-6	5 g bei 10...500 Hz
MOQ Auftrag	2.100 Stück
RoHS konform	ja
REACH konform	ja

Einbaumaße

Außenmaß Länge	6,4 ± 0.1 mm
Außenmaß Breite	5,1 ± 0.1 mm
Einbauhöhe	3,85 ± 0.1 mm
Raster, min.	6 x 7.8 mm

Mechanische Kennwerte

Betätigungsfunktion	tastend
Betätigungskraft, max.	4 N
Betätigungskraft, min.	1,5 ± 0.3 N
Schaltweg	0,7 ± 0.15 mm
Kontaktfunktion	1 S
Kontaktsystem	Sprungkontakt SPST - Single Pole Single Throw
Kontaktwerkstoff	Gold
Lötbarkeit	Ja
Anschluss rückseitig	SMT

Elektrische Kennwerte

Schaltspannung, min.	0,02 V
Schaltspannung, max.	35 V
Spannungsfestigkeit	250 V
Schaltstrom, min.	0,00001 A
Schaltstrom, max.	0,1 A
Schaltleistung, max.	1 W

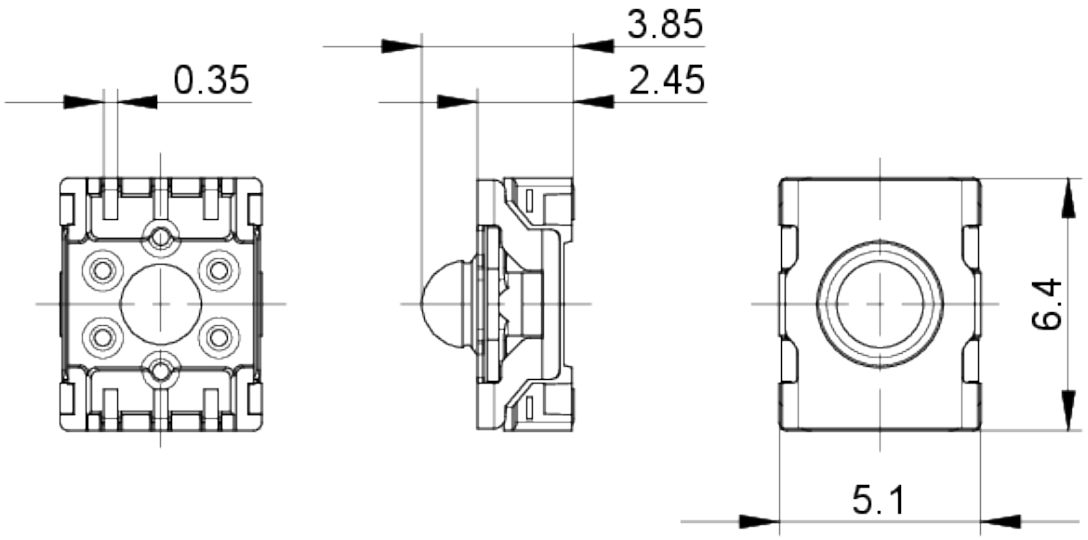
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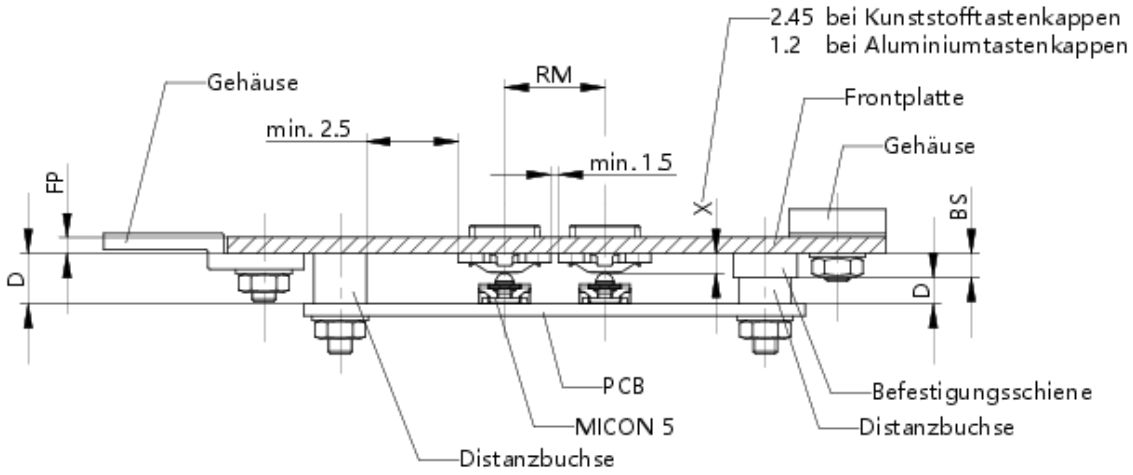
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Zeichnungen

Maß-Zeichnungen



System-Zeichnung

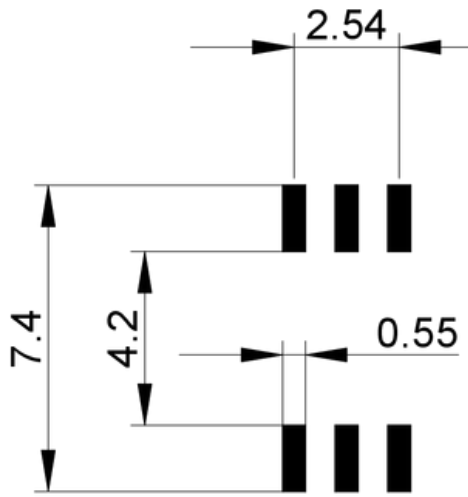


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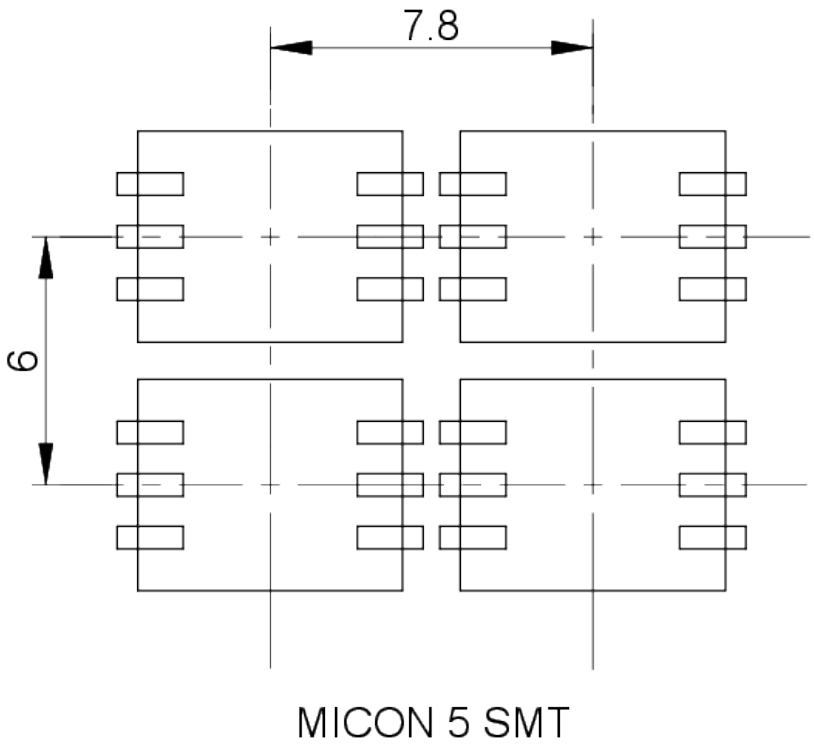
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Leiterplatten-Zeichnung



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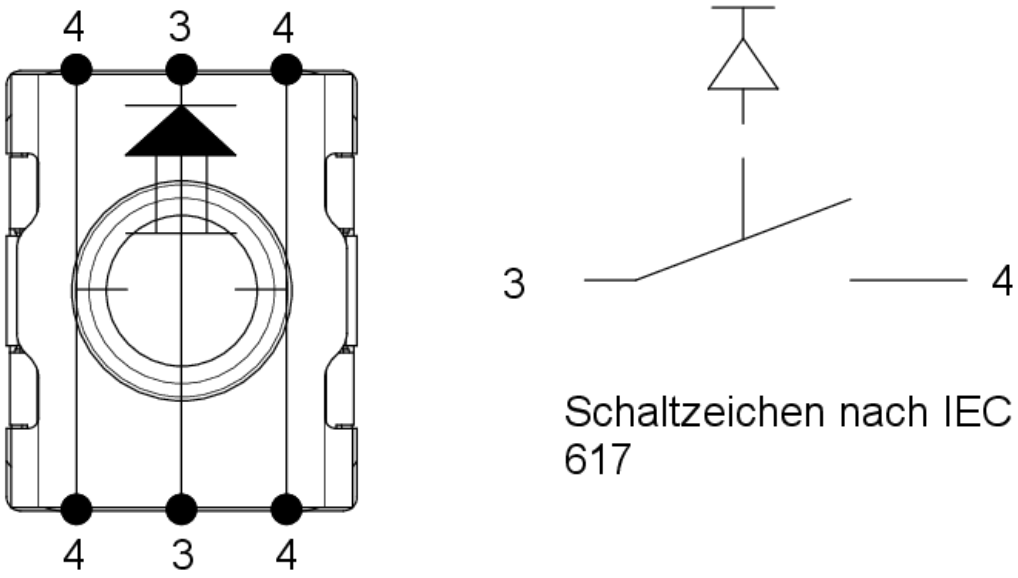


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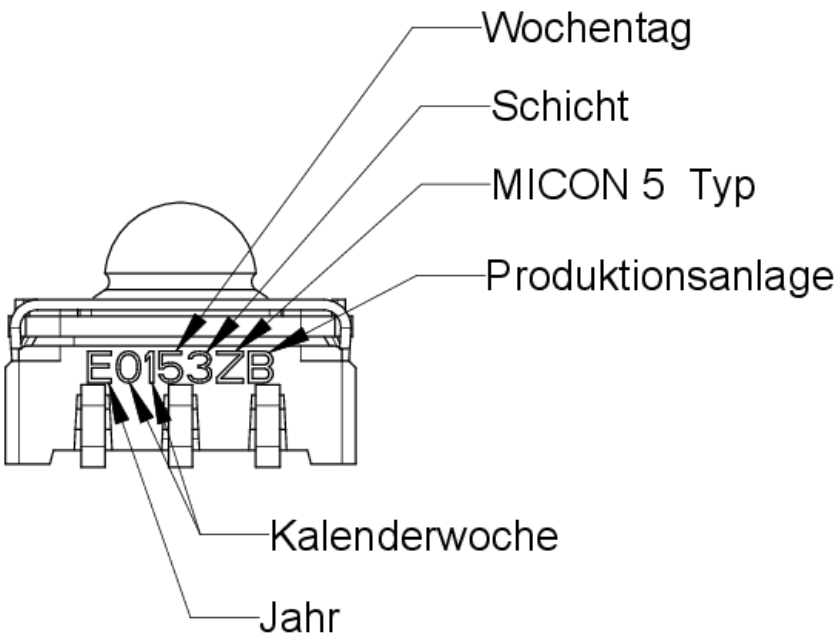
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Schaltschema-Zeichnung



Produktkennzeichnung-Zeichnung



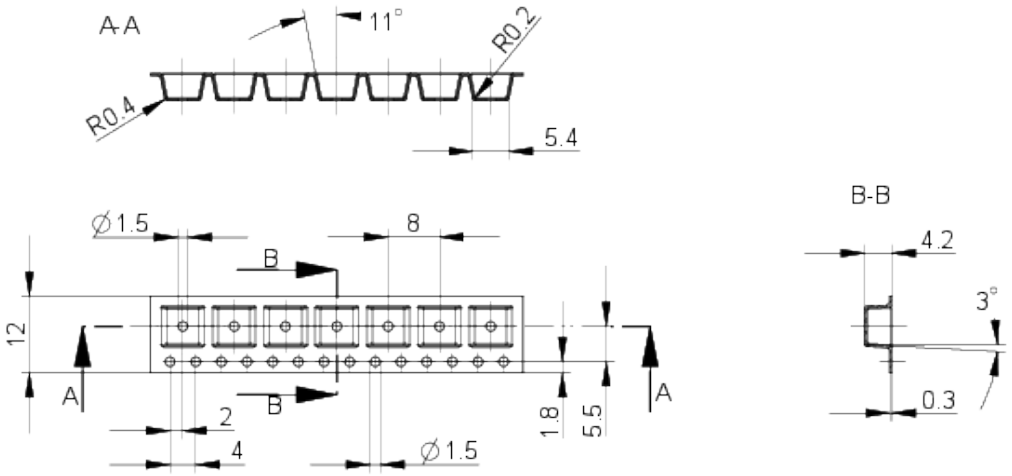
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Verpackungs-Zeichnung



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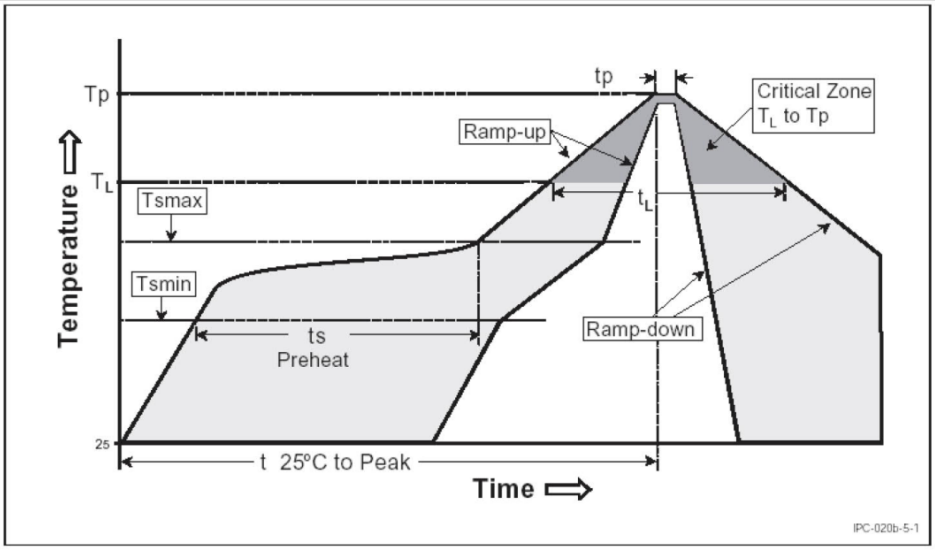
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Montage

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}) Maximum temperature (T_{smax}) Time (from min. to max.) (ts)	 150°C 200°C 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 (tp)	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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