Standex MEDER ELECTRONICS

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Item No.:
9231462025
Item:
MK23-46-D-2

Dimensions mm[inch]
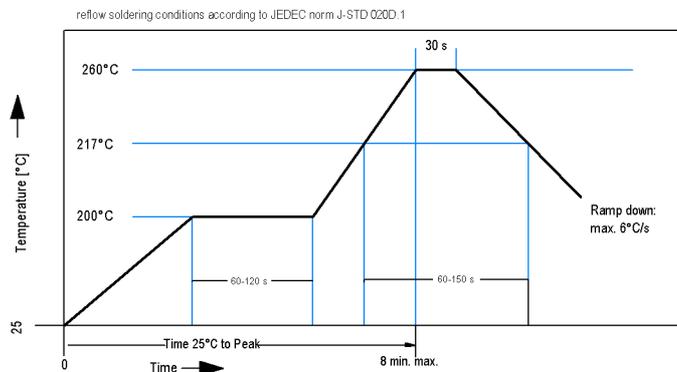tolerances according to DIN ISO 2768-m
Toleranzen gem. DIN ISO 2768-m

12 max.
[0,47 max.]

2,50 max.
[0,10 max.]

0,10 +0,05 / 0
[0,00 +0,002 / 0,000]

17,80
[0,70]

Ø 2 max.
[0,08 max.]

Ø 0,50 max.
[0,02 max.]

1,10 ±0,10
[0,04 ±0,004]

Isometric
Scale 2:1
Maßstab 2:1
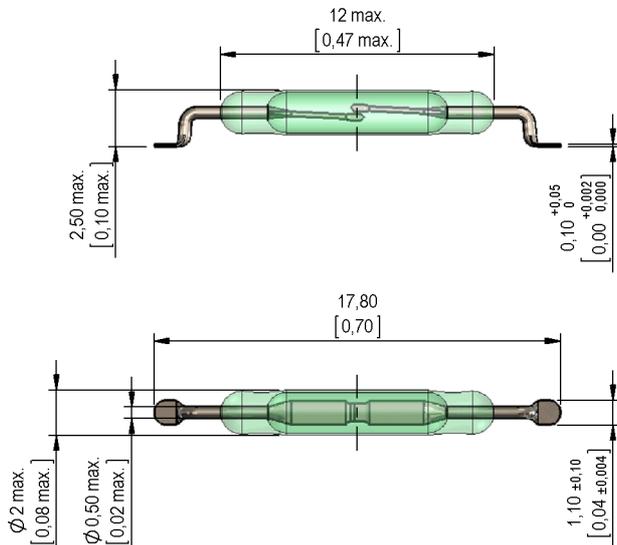
Recommended PCB Pad Layout

1,90
[0,07]

1,80
[0,07]

18,40
[0,72]

Solder Reflow Profile

reflow soldering conditions according to JEDEC norm J-STD 020D.1

260°C
217°C
200°C
25

30 s
60-120 s
60-150 s
Ramp down: max. 6°C/s
Temperature [°C]
Time 25°C to Peak
8 min. max.
0 Time

Packaging

2 ±0,1
[0,08 ±0,004]

1,70 ±0,10
[0,07 ±0,004]

1,75 ±0,1
[0,07 ±0,004]

A

14,20 ±0,15
[0,56 ±0,006]

28,40 ±0,1
[1,12 ±0,004]

32 ±0,3
[1,26 ±0,012]

Ø 1,50 +0,1 / 0
[0,06 +0,004 / 0,000]

8 ±0,1
[0,31 ±0,004]

1,35 ±0,10
[0,05 ±0,004]

A

0,30 ±0,05
[0,01 ±0,002]

12,15 ±0,1
[0,48 ±0,004]

18,30 ±0,2
[0,72 ±0,008]

2,60 ±0,1
[0,10 ±0,004]

A-A (1 : 1)

1,50
[0,06]

1,70 ±0,05
[0,07 ±0,002]

0,20
[0,01]

E

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Magnetic properties	Conditions	Min	Typ	Max	Unit
Pull-In excitation (modified contact)	Reed switch modified phys. conditioned tolerance of +/- 1 AT	38		52	AT
Test-coil			KMS-21		
Pull-In in milliTesla (modified conta	MS150 - phys. caused tolerance +/- 0,1mT	2,31		3,12	mT

Contact data 46	Conditions	Min	Typ	Max	Unit
Contact-No.			46		
Contact-form			A		
Contact-material			Rhodium		
Contact rating	combination of switching voltage and current not to exceed their individual max.'s			10	W
Switching voltage	DC or Peak AC			200	V
Switching current	DC or Peak AC			0,5	A
Carry current	DC or Peak AC			1	A
Contact resistance static	Measured with 40% overdrive Start Value			150	mOhm
Contact resistance dynamic	Maximum value 1,5 ms after excitation Start Value			200	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	1.000			GOhm
Breakdown voltage	according to IEC 255-5	225			VDC
Operate time incl. bounce	measured with 40% overdrive			0,7	ms
Release time	measured with no coil excitation			0,1	ms
Capacity	@ 10 kHz across open switch		0,3		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Reach / RoHS conformity			yes		

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine, duration 11ms, in 3 axis			50	g
Vibration	from 10 - 2000 Hz			20	g
Operating temperature		-40		130	°C
Storage temperature		-55		130	°C
Soldering Temperature Tsold	Reflow according IPC/JEDEC J-STD-020C			260	°C

General data	Conditions	Min	Typ	Max	Unit
Packaging			Tape & Reel 2500 pcs.		

Modifications in the sense of technical progress are reserved

Designed at:	03.12.09	Designed by:	AKELLER	Approval at:	16.08.13	Approval by:	DKUECHLER
Last Change at:	22.09.14	Last Change by:	WKOVACS	Approval at:	12.09.16	Approval by:	DKUECHLER	Rev. No.: 03