Micro Relay K (THT – THR) (Continued)

Coil Data

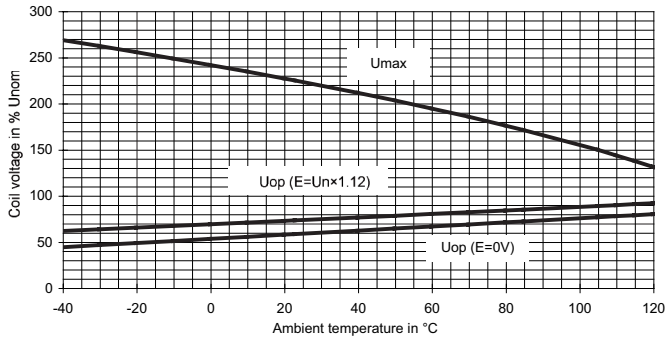
Rated coil voltage	12VDC

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
001/801	12	6.9	1.5	254	567
002/802	10	5.7	1.25	181	552
051/851	10	6.5	1.1	90	1111

All figures are given for coil without pre-energization, at ambient temperature +23°C.

Coil operating range



Does not take into account the temperature rise due to the contact current
E = pre-energization

Insulation Data

Initial dielectric strength	
between open contacts	500VAC$_{rms}$
between contact and coil	500VAC$_{rms}$

Other Data

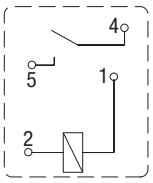
EU RoHS/ELV compliance	compliant
Ambient temperature, DC coil	-40 to +105°C
Cold storage, IEC 60068-2-1	1000h; -40°C
Dry heat, IEC 60068-2-2	1000h; +125°C
Climatic cycling with condensation, EN ISO 6988	20 cycles, storage 8/16h
Temperature cycling (shock), IEC 60068-2-14, Na	100 cycles; -40/+125°C
Temperature cycling, IEC 60068-2-14, Nb	35 cycles; -40/+125°C
Damp heat cyclic, IEC 60068-2-30, Db, variant 1	6 cycles 25°C/55°C/93%RH
Damp heat constant, IEC 60068-2-3 method Ca	56 days 40°C/95%RH
Degree of protection	
THT:	RT III (61810)
THR:	RT II (61810)
Sealing test, IEC 60068-2-17: THT	Qc, method 2, 1min, 70°C
Corrosive gas	
IEC 60068-2-42	10 days
IEC 60068-2-43	10 days
Vibration resistance (functional)	
IEC 60068-2-6 (sine sweep)	10 to 500Hz; 6g[6]
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	6ms, up to 30g[6]
Terminal type	PCB:THT, THR
Weight	approx. 4g (0.14oz)
Solderability (aging 3: 4h/155°C) THT	
IEC 60068-2-20	Ta, method 1, hot dip 5s, 215°C
Solderability THR	
IEC60068-2-58	hot dip 5s 245°C
Resistance to soldering heat THT	
IEC 60068-2-20	Tb, method 1A, hot dip 10s, 260°C with thermal screen
Resistance to soldering heat THR	
IEC 60068-2-58	260°C; preheating min 130°C
Storage conditions	according IEC 60068-1[7]
Packaging unit	2000 pcs.

6) Depending on mounting position: no change in the switching state >10µs.
7) For general storage and processing recommendations please refer to our Application Notes and especially to Storage in the Definitions or at http://relays.te.com/appnotes/

Micro Relay K (THT – THR) (Continued)

Terminal Assignment
Bottom view on solder pins

1 form A, 1 NO



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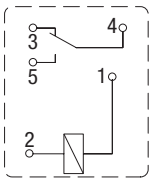
1 form C, 1 CO



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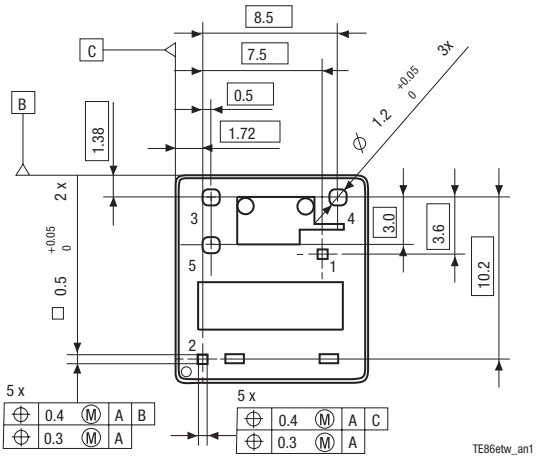
Mounting Hole Layout
Bottom view on solder pins



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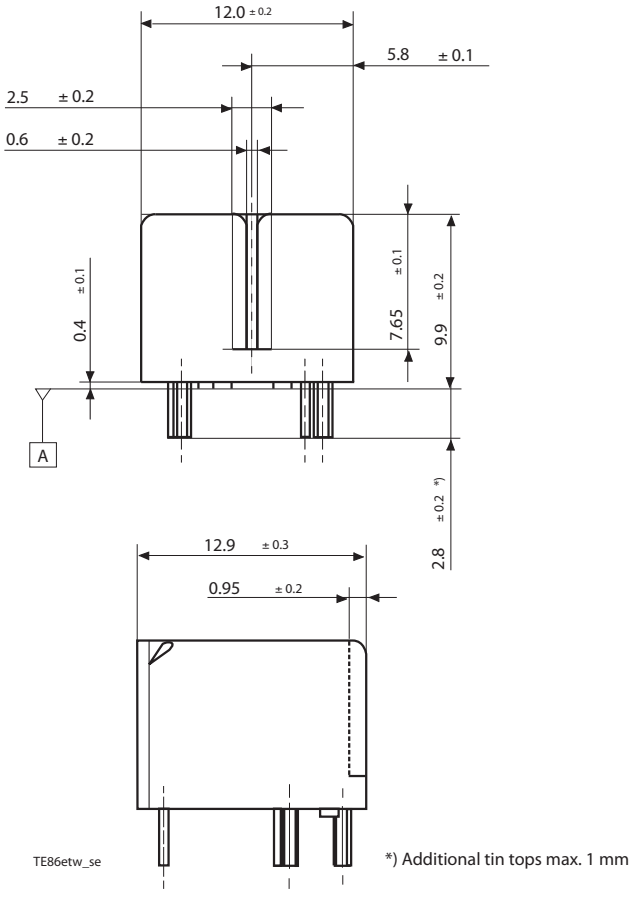
Remark: Positional tolerances according to DIN EN ISO 5458

Dimensions
Micro Relay K, THT version



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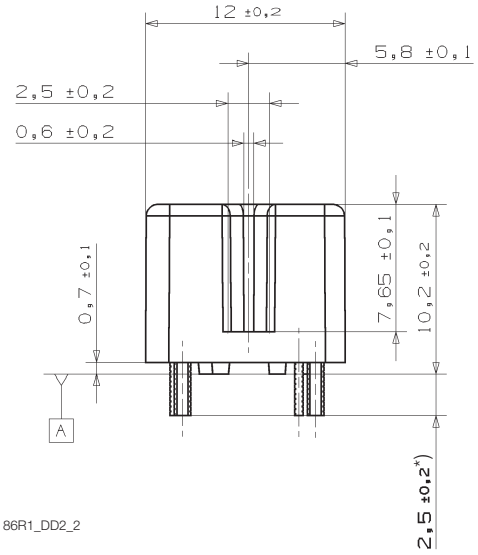
*) Additional tin tops max. 1 mm

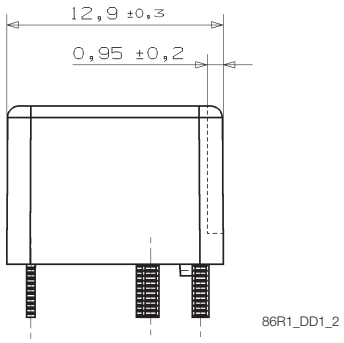
*) Additional tin tops max. 1mm

Micro Relay K (THT – THR) (Continued)

Micro Relay K, THR version



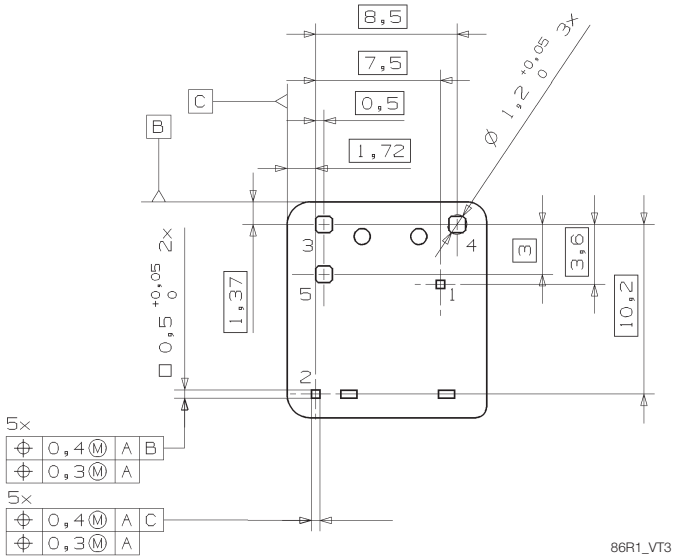
86R1_DD2_2



86R1_DD1_2

*) Additional tin tops max. 1mm

Mounting Hole Layout
Bottom view on solder pins



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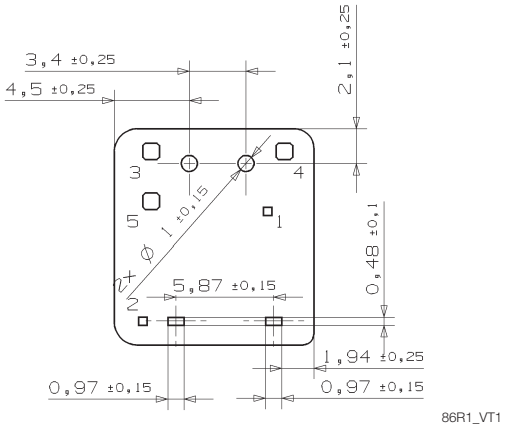
View of Stand-Offs
Bottom view on solder pins



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Micro Relay K (THT – THR) (Continued)

Product code structure Typical product code **V23086 -C 1 001 -A 4 03**

Type
V23086 Micro Relay K (THT – THR)

Terminal and enclosure
C PCB version THT, sealed
R PCB version THR, vented

Design
1 Single relay

Coil
001 Standard (THT)
002 Sensitive (THT)
801 Standard (THR)
802 Sensitive (THR)
051 Lamp load (THT)
851 Lamp load (THR)

Contact type
A Single contact

Contact material index
4 $AgSnO_2$ standard
8 $AgSnO_2$ wiper load
5 $AgSnO_2$ lamp load

Contact arrangement index
02 NO
03 CO

Product code	Version	Design	Coil	Contact	Cont. material	Arrangement	Part number
V23086-C1001-A402	PCB THT,	Single	Standard	Single	$AgSnO_2$ (standard)	1 form A, 1 NO	0-1393280-5
V23086-C1001-A403	cleanable					1 form C, 1 CO	0-1393280-6
V23086-C1051-A502			Lamp load		$AgSnO_2$ (lamp)	1 form A, 1 NO	2-1904093-1
V23086-C1002-A803			Sensitive		$AgSnO_2$ (wiper)	1 form C, 1 CO	2-1414987-3
V23086-R1801-A402	PCB THR,		Standard		$AgSnO_2$ (standard)	1 form A, 1 NO	2-1904093-2
V23086-R1801-A403	vented					1 form C, 1 CO	6-1414920-0
V23086-R1851-A502			Lamp load		$AgSnO_2$ (lamp)	1 form A, 1 NO	9-1904064-4
V23086-R1802-A803			Sensitive		$AgSnO_2$ (wiper)	1 form C, 1 CO	7-1414967-8

This list represents the most common types and does not show all variants covered by this datasheet.
Other types on request.