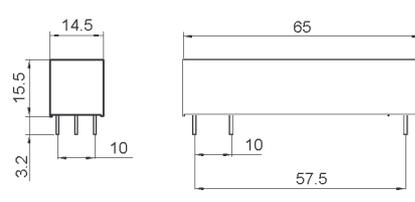


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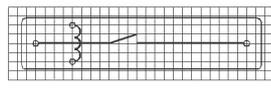
## Preliminary Datasheet

**DIMENSIONS (mm)**



**PINS**  
 Pins:  $\varnothing 0.8$  mm  
 L =  $3.2 \pm 0.3$  mm

**LAYOUT**  
 pitch 2.5 mm/Top view



**MARKING**



**MARKING**  
 MEDER-Label  
 Type/Layout  
 Production code,  
 EN60062/Factory code

Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		45	50	55	Ohm
Coil voltage			5		VDC
Rated power			500		mW
Pull-In voltage				3,8	VDC
Drop-Out voltage		0,5			VDC

Contact data 83	Conditions	Min	Typ	Max	Unit
Contact rating	Any DC combination of V & A not to exceed their individual max.'s			50	W
Switching voltage	DC or Peak AC			10	kV DC
Switching current	DC or Peak AC			3	A
Carry current	DC or Peak AC			5	A
Contact resistance static	Measured with 40% overdrive Start Value			150	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			GOhm
Breakdown voltage	according to EN 60255-5	10			kV DC
Operate time incl. bounce	measured with 40% overdrive			3,2	ms
Release time	measured with no coil excitation			1,5	ms
Capacitance	@ 10 kHz across open switch		1		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Number of contacts				1	
Contact - form				A - NO	
Dielectric Strength Coil/Contact	according to EN 60255-5	10			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC test voltage	1			TOhm
Housing material				Polycarbonat	
Sealing compound				Polyurethan	
Connection pins				Copper alloy tin plated	
Reach / RoHS conformity				yes	

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine wave duration 11ms			50	g
Vibration	from 10 - 2000 Hz			20	g
Operating temperature		-20		70	°C

Modifications in the sense of technical progress are reserved

Designed at: 11.08.08 Designed by: WKOVACS  
 Last Change at: 13.08.12 Last Change by: WKOVACS

Approval at: 12.08.08 Approval by: KOLBRICH  
 Approval at: Approval by:

Version: 04



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Item No.:  
**8505183000**  
Item:  
**HE05-1A83**

## Preliminary Datasheet

Environmental data	Conditions	Min	Typ	Max	Unit
Storage temperature		-35		105	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability		fully sealed			

Modifications in the sense of technical progress are reserved

Designed at: 11.08.08    Designed by: WKOVACS  
Last Change at: 13.08.12    Last Change by: WKOVACS

Approval at: 12.08.08    Approval by: KOLBRICH  
Approval at:                    Approval by:

Version: 04