

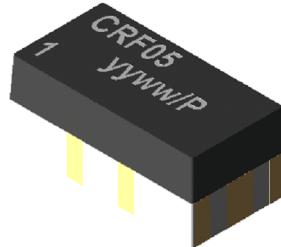
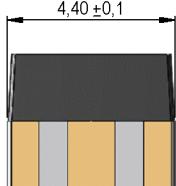
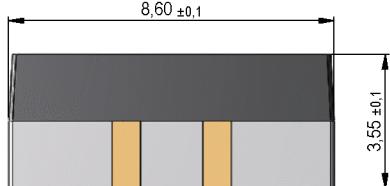
Products for tomorrow).

### **Dimensions mm[inch]**

 tolerances acc. to DIN ISO 2768-m  
*Toleranzen gem. DIN ISO 2768-m*

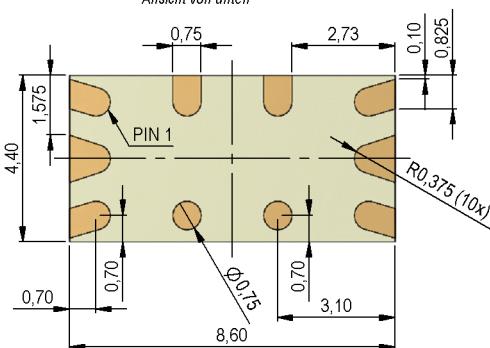
## Isometric

Scale 5:1  
Maßstab 5:1



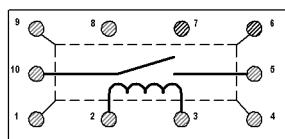
## **Relay pad layout**

Bottom view  
Ansicht von unten



## Schematic

## Top view Draufsicht



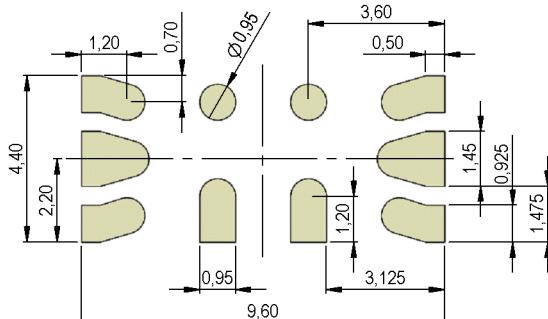
## **Marking**

according to EN60062/factory code  
gem. EN60062/Fertigungsstätte

CRF05  
1 yyww/P

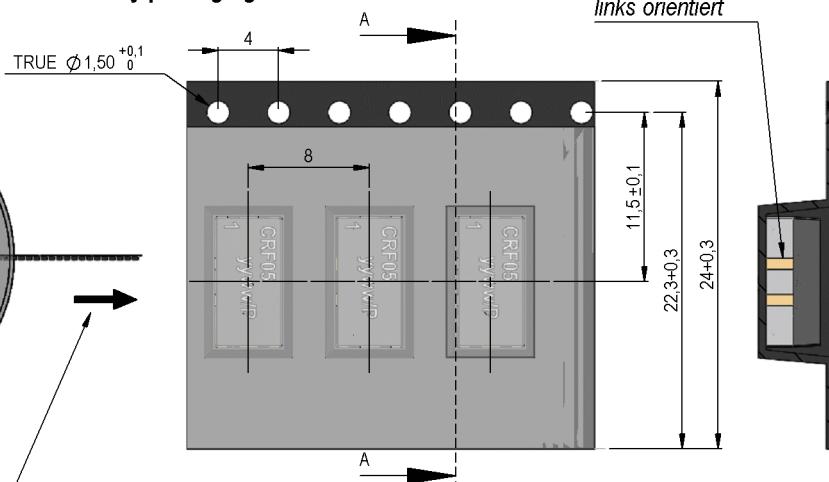
## Recommended PCB Pad Layout

*top view / Ansicht von oben*



Gold pads facing  
to the left  
*Goldpads nach  
links orientiert*

#### **Relay packaging orientation**



**Direction of Feed**  
Advance of the first Relays 400mm  
Vorschubrichtung  
Vorlauf vor dem ersten Relais 400m

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Modifications in the sense of technical progress are reserved

Designed at: 16.11.09 Designed by: RPYPEC  
Last Change at: 19.07.12 Last Change by: CRUE

Approval at: 16.11.09 Approval by: TLANE  
Approval at: 19.07.12 Approval by: CRUIE

Version: 06

*Products for tomorrow...*

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Item No.:  
**9605180022**  
 Item:  
**CRF05-1A**

Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		135	150	165	Ohm
Coil voltage			5		VDC
Rated power			167		mW
Pull-In voltage				3,75	VDC
Drop-Out voltage		0,75			VDC

Contact data 80/1	Conditions	Min	Typ	Max	Unit
Contact rating	Any DC combination of V & A			10	W
Switching voltage	DC or Peak AC			170	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			200	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	1	10		GOhm
Breakdown voltage	according to EN 60255-5	210			VDC
Operate time incl. bounce	measured with 40% overdrive			0,1	ms
Release	measured with no coil excitation			0,02	ms
Capacity	@ 10 kHz across open switch		0,4		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	1,5			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC measuring voltage	10	100		TOhm
Case color				black/white	
Housing material				Ceramic + mineral filled epoxy	
Material connection pads				W, Ni, gold plated	
Magnetic Shield				yes	
Approval				UL-File No. NRNT2.E156887	
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		125	°C
Storage temperature		-55		125	°C
Soldering Temperature Tsold	Reflow according IPC/JEDEC J-STD-020C			260	°C
Washability				fully sealed	
Remark				RF data available upon request, please consult factory	

General data	Conditions	Min	Typ	Max	Unit
Total weight			0,37		g
Packaging				Tape & Reel / 1000 pcs.	