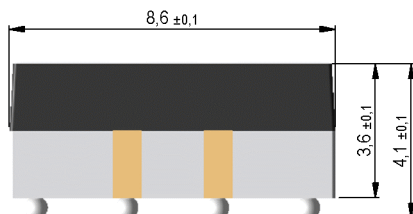
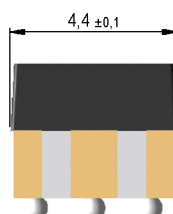
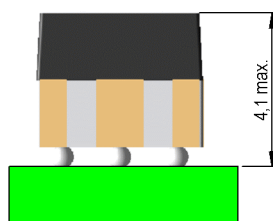


## Preliminary Datasheet

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

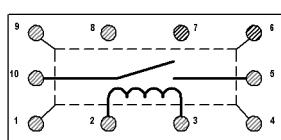


**Post reflow height**

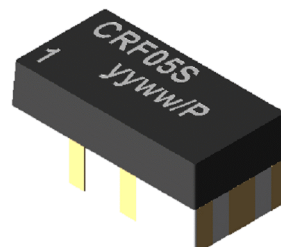


**Schematic**

Top view  
Draufsicht



**Isometric**  
Scale 1:2  
Maßstab 1:2

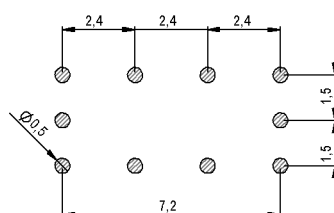


**Marking**

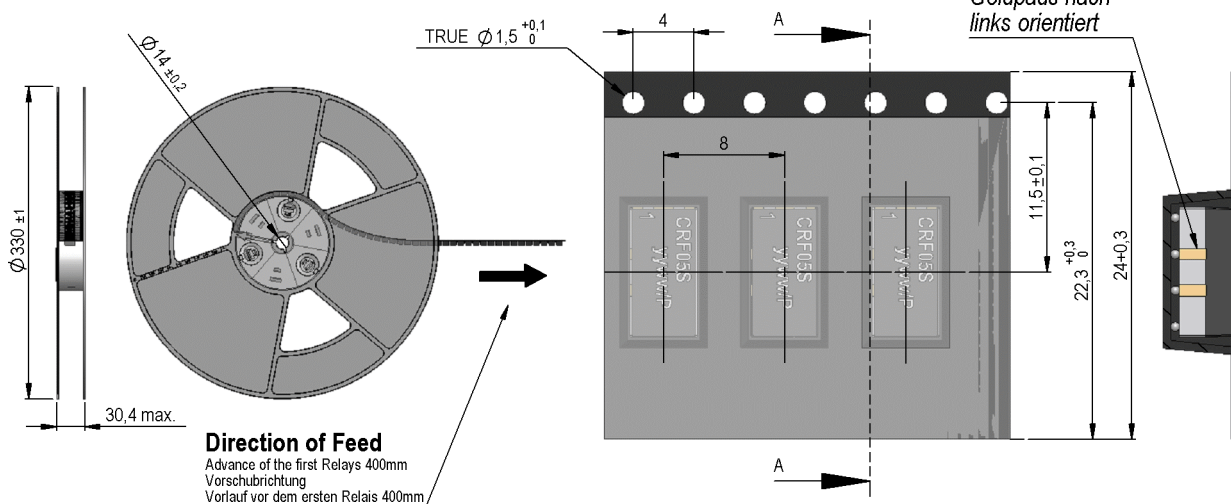
according to EN60062/factory code  
gem. EN60062/Fertigungsstätte



### Recommended PCB Pad Layout



### Relay packaging orientation





*Products for tomorrow...*

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Item No.:  
**9605180020**  
Item:  
**CRF05-1AS**

## Preliminary Datasheet

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			BGA solderballs D= 0,025 inches, lead free		
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		85	°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.		

Modifications in the sense of technical progress are reserved

Designed at: 27.01.11 Designed by: CRUF  
Last Change at: 30.10.12 Last Change by: WKOVACS

Approval at: 27.01.11 Approval by: CRUF  
Approval at: Approval by:

Version: 05