



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

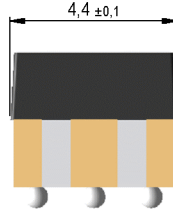
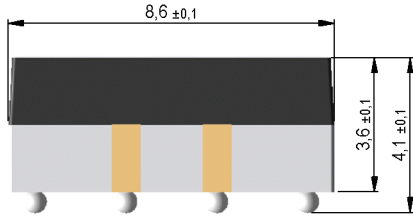
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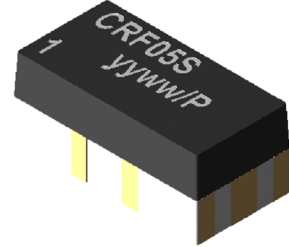
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



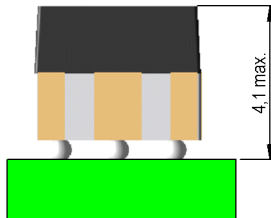
**Dimensions mm[inch]**  
tolerances acc. to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m



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

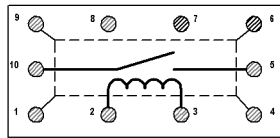


**Post reflow height**



**Schematic**

Top view  
Draufsicht

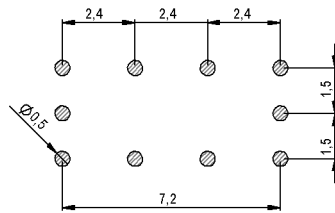


**Marking**

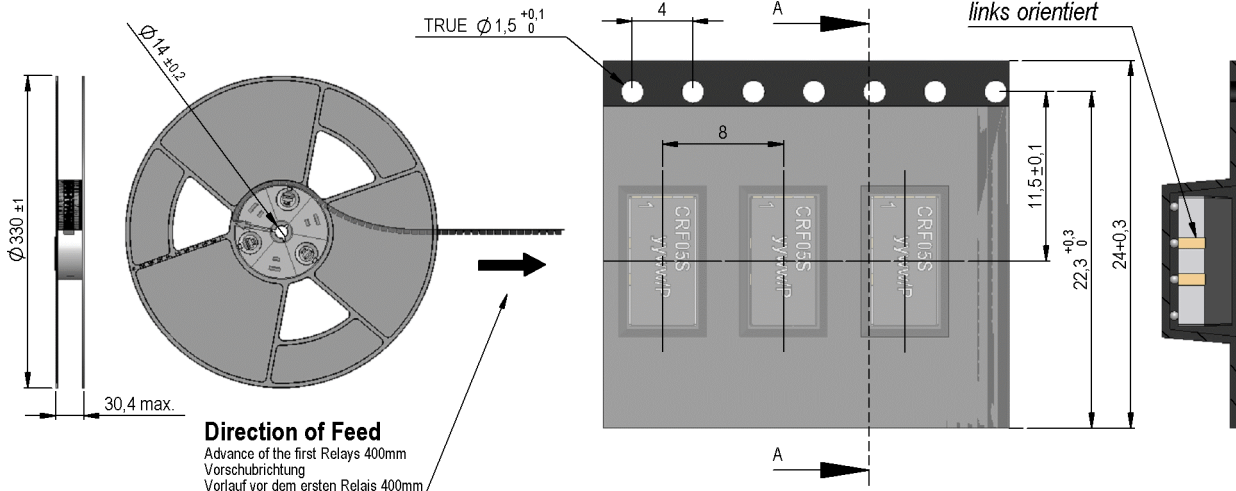
according to EN60062/factory code  
gem. EN60062/Fertigungsstätte



**Recommended PCB Pad Layout**



**Relay packaging orientation**







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

*Products for tomorrow...*

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 T <sub>sold</sub>	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: 01/27/11 Designed by: CRUF  
 Last Change at: 10/30/12 Last Change by: WKOVACS

Approval at: 01/27/11 Approval by: CRUF  
 Approval at: 11/08/12 Approval by: TLANE

Rev. No.: 05