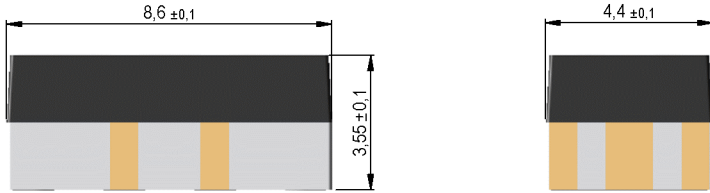
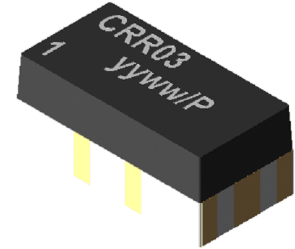


Dimensions mm[inch]
 tolerances acc. to DIN ISO 2768-m
 Toleranzen gem. DIN ISO 2768-m

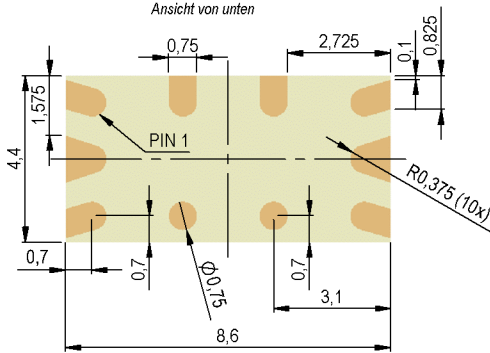


Isometric
 Scale 5:1
 Maßstab 5:1



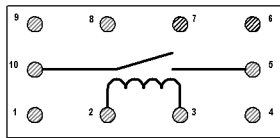
Relay pad layout

Bottom view
 Ansicht von unten



Schematic

Top view
 Draufsicht



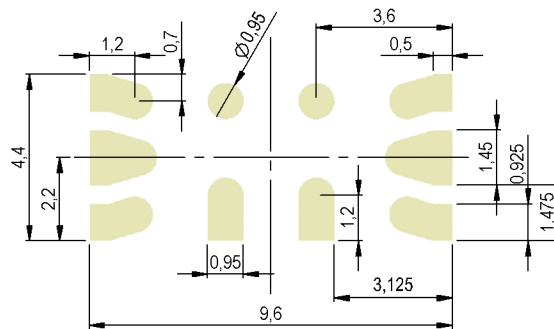
Marking

according to EN60062/factory code
 gem. EN60062/Fertigungsstätte



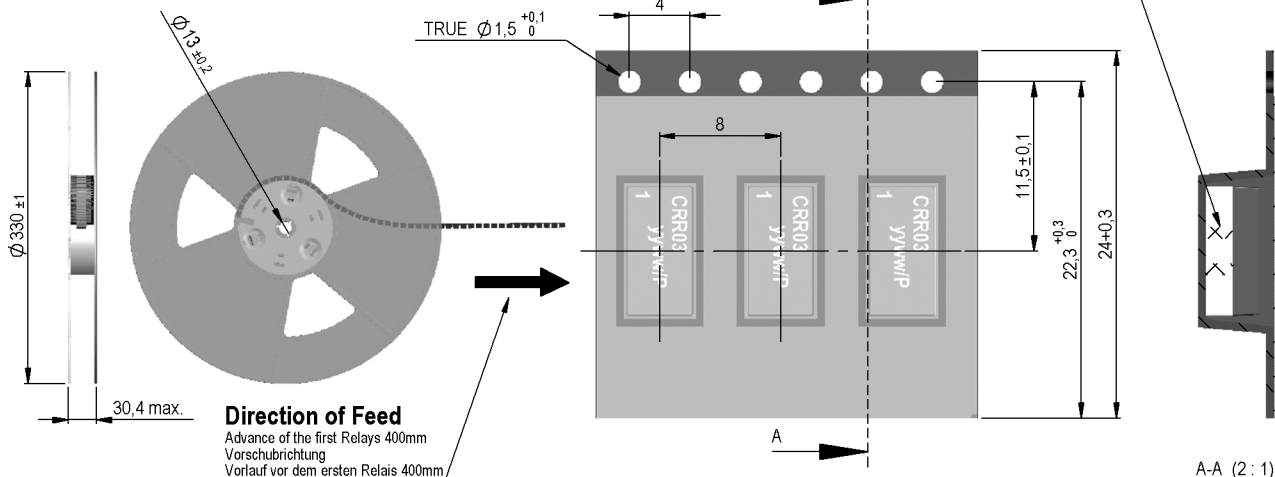
Recommended PCB Pad Layout

Top view / Ansicht von oben



Relay packaging orientation

Gold pads facing to the left
 Goldpads nach links orientiert



A-A (2:1)



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Item No.:
9603180012
 Item:
CRR03-1A

Products for tomorrow...

| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|------|-----|------|------|
| Coil resistance | | 63 | 70 | 77 | Ohm |
| Coil voltage | | | 3 | | VDC |
| Rated power | | | 129 | | mW |
| Pull-In voltage | | | | 2,25 | VDC |
| Drop-Out voltage | | 0,45 | | | VDC |

| Contact data 80/1 | Conditions | Min | Typ | Max | Unit |
|---------------------------|----------------------------------|-----|------|------|------|
| Contact-No. | | | 80/1 | | |
| Contact-form | | | A | | |
| 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 | | | 0,6 | ms |
| Release | measured with no coil excitation | | | 0,05 | 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 | | |
| 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 | | |

| 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: 07.12.09 Designed by: MAPODACA
 Last Change at: 19.07.12 Last Change by: CRUF

Approval at: 08.12.09 Approval by: TLANE
 Approval at: 19.07.12 Approval by: CRUF

Version: 07