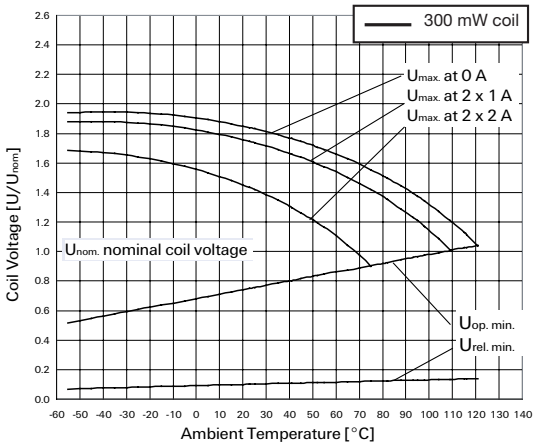
# FT2/FU2 Relay (Continued)

## Coil Data (continued)

**Coil versions, monostable**

| Coil code | Rated voltage VDC | Operate voltage $VDC_{min.}$ | Limiting voltage $VDC_{max.}$ | Release voltage $VDC_{min.}$ | Coil resistance Ω±10% | Rated coil power mW |
|---|---|---|---|---|---|---|
| **High dielectric Australia version, monostable** | | | | | | |
| 71 | 3 | 2.25 | 5.50 | 0.30 | 30 | 300 |
| 73 | 5 | 3.75 | 9.20 | 0.50 | 83 | 300 |
| 76 | 12 | 9.00 | 22.10 | 1.20 | 480 | 300 |

All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.




$U_{max}$ upper limit of the operative range of the coil voltage (limiting voltage) when coils are continuously energized
$U_{op\ min}$ lower limit of the operative range of the coil voltage (reliable operate voltage)
$U_{rel\ min}$ lower limit of the operative range of the coil voltage (reliable release voltage)

## Insulation

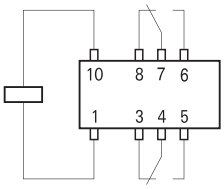
| Insulation | standard | high dielectric* |
|---|---|---|
| Initial dielectric strength | | |
| between open contacts | $1000V_{rms}$ | $1500V_{rms}$ |
| between contact and coil | $1500V_{rms}$ | $4000V_{rms}$ |
| between adjacent contacts | $1500V_{rms}$ | $1800V_{rms}$ |
| Initial surge withstand voltage | | |
| between open contacts | 1500V | 2500V |
| between contact and coil | 2500V | 5000V |
| between adjacent contacts | 1500V | 2500V |
| Initial insulation resistance | | |
| between insulated elements | $>10^9\Omega$ | $>10^9\Omega$ |
| Capacitance | | |
| between open contacts | max. 4pF | |
| between contact and coil | max. 1pF | |
| between adjacent contacts | max. 1pF | |
| Cross talk at 100MHz/900MHz | -30.6dB/-13.7dB | |
| Insertion loss at 100MHz/900MHz | -0.02dB/-0.50dB | |
| Voltage standing wave ratio (VSWR) | | |
| at 100MHz/900MHz | 1.02 / 1.27 | |

*this relay contains SF6 (Sulfur hexafluoride, CAS number: 2551-62-4) for dielectric strength enhancement, SF6 is hermetically sealed in relay without leaks to air during normal application as recommended per the applicable product specification. It is clarified that the usage of SF6 in mini signal relay is not prohibited by related regulations. Please contact TE local sales or field engineer for further information and detailed material declaration.

## Other Data

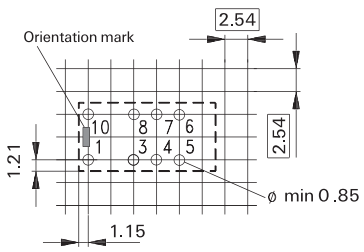
| | |
|---|---|
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter | |
| Ambient temperature | -55°C to +85°C |
| Thermal resistance | <125K/W |
| Category of environmental protection | |
| IEC 61810 | RT III - wash tight |
| Vibration resistance (functional) | 10g, 10 to 500Hz |
| Shock resistance (functional), half sinus 11ms | 15g |
| Shock resistance (destructive), half sinus 0.5ms | 500g |
| Weight | max. 3g |
| Resistance to soldering heat THT | |
| IEC 60068-2-20 | 265°C/5s |
| For all High Dielectric Versions (HDV) | 260°C/5s |
| Moisture sensitive level, JEDEC J-Std-020D related only to SMT and THT-HDV relays packed in orginal dry-packs | MSL3 |
| Ultrasonic cleaning | not recommended |
| Packaging/unit | |
| THT version | tube/50 pcs., box/2000 pcs. |
| SMT short terminals | reel/500 pcs.,box/2500 pcs. |
| SMT long terminals | reel/400 pcs.,box/2000 pcs. |

**Terminal assignment**
TOP view on component side of PCB

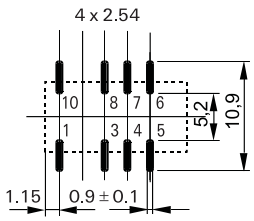



**PCB layout**
TOP view on component side of PCB

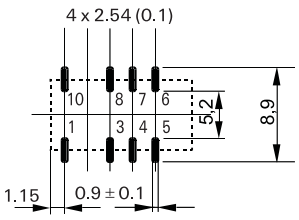
THT version




SMT, long terminals



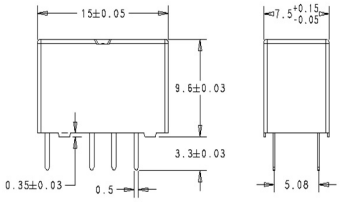

SMT, short terminals



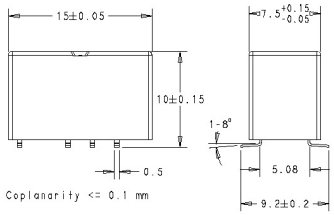
## FT2/FU2 Relay (Continued)

### Dimensions

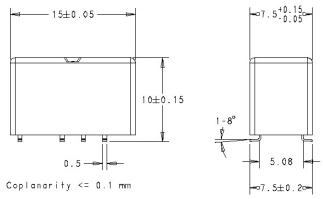
THT version



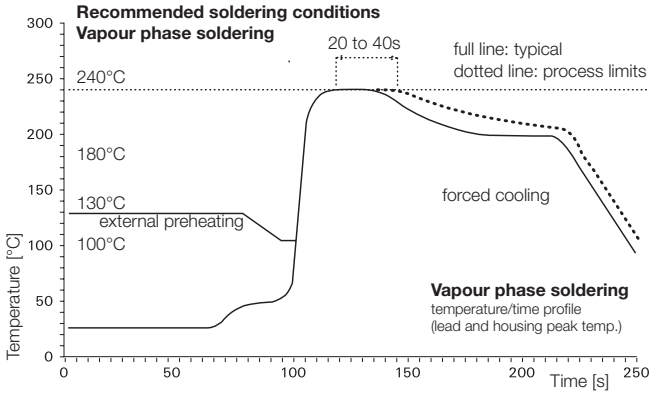

SMT, long terminals

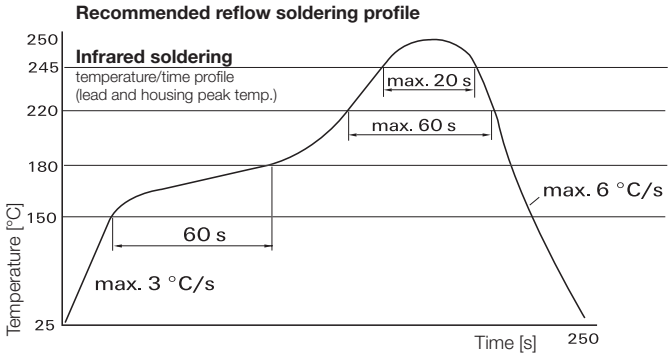



SMT, short terminals



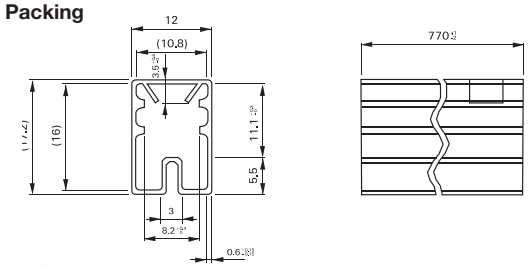

### Processing

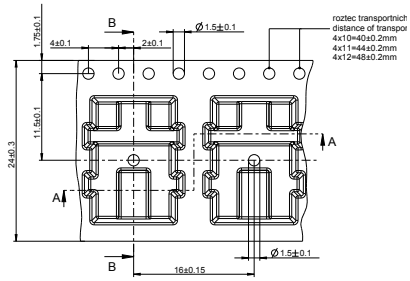


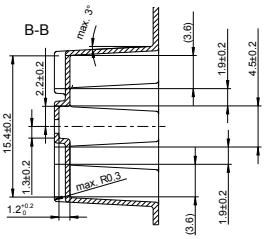



## FT2/FU2 Relay (Continued)

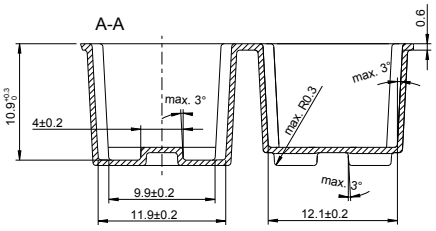
### Packing

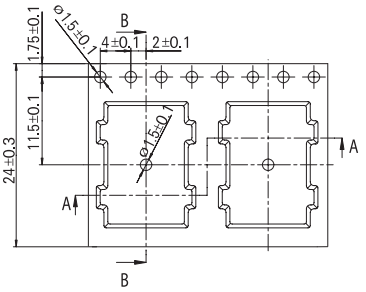


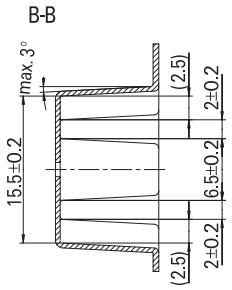



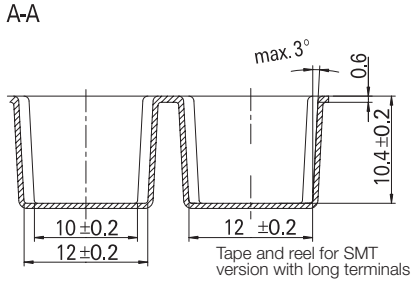



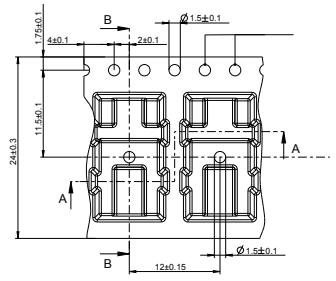

NEW

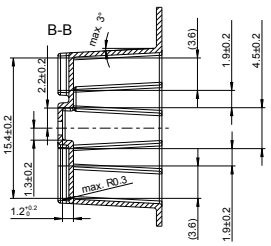


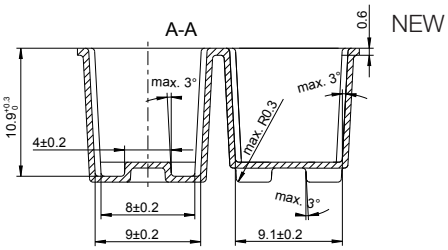



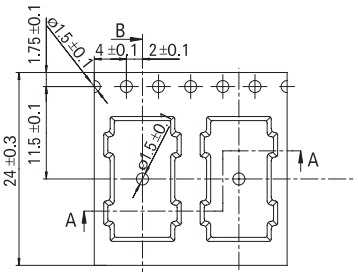



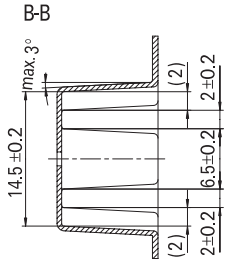



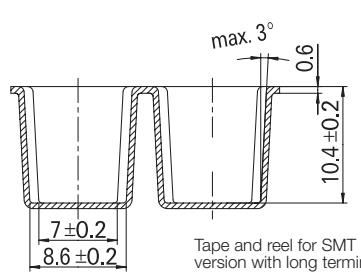




NEW

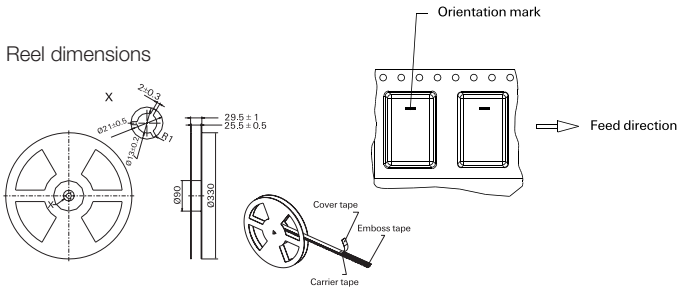



Reel dimensions



## FT2/FU2 Relay (Continued)

### Product code structure

Typical product code **D34** **02**

**Type**

**D34** Signal Relays FT2 (THT)
**D35** Signal Relays FU2 (SMT)
2 form C, 2 CO

**Coil**

Coil code: please refer to coil versions table
Performance and coil type
**2x** Standard version, monostable
**9x** High dielectric version, monostable
**7x** High dielectric, Australia version, monostable (SMT version only)

**Terminals**

**Blank** THT, Standard packaging
**L** THT, dry-pack (on request)
**N** SMT, short pins
**W** SMT, long pins

| Product code | Arrangement | Perf. type | Coil type | Coil | Terminals | Part Number |
|---|---|---|---|---|---|---|
| D3421 | 2 form C (2 CO) | Standard | Monostable | 3VDC | THT | 1462035-9 |
| D3423 | | | | 5VDC | | 1-1462035-1 |
| D3426 | | | | 12VDC | | 1-1462035-4 |
| D3427 | | | | 24VDC | | 1-1462035-7 |
| D3523N | 2 form C (2 CO) | Standard | Monostable | 5VDC | SMT short | 2-1462036-1 |
| D3527N | | | | 24VDC | | 2-1462036-9 |
| D3528N | | | | 48VDC | | 9-1462036-3 |
| D3521W | 2 form C (2 CO) | Standard | Monostable | 3VDC | SMT long | 1-1462036-8 |
| D3522W | | | | 4.5VDC | | 2-1462036-0 |
| D3523W | | | | 5VDC | | 2-1462036-2 |
| D3526W | | | | 12VDC | | 2-1462036-8 |
| D3527W | | | | 24VDC | | 9-1462036-1 |
| D3491 | 2 form C (2 CO) | High dielectric | Monostable | 3V | THT | 2-1462035-0 |
| D3492 | | | | 4.5VDC | | 2-1462035-1 |
| D3493 | | | | 5V | | 1-1462035-5 |
| D3496 | | | | 12VDC | | 2-1462035-4 |
| D3497 | | | | 24VDC | | 2-1462035-5 |
| D3491L | | | | 3VDC | | 2-1462035-7 |
| D3491L | 2 form C (2 CO) | High dielectric special | Monostable | 3VDC | THT | 3-1462035-0 |

Other types on request
This list represents the most common types and does not show all variants covered by this data sheet.