

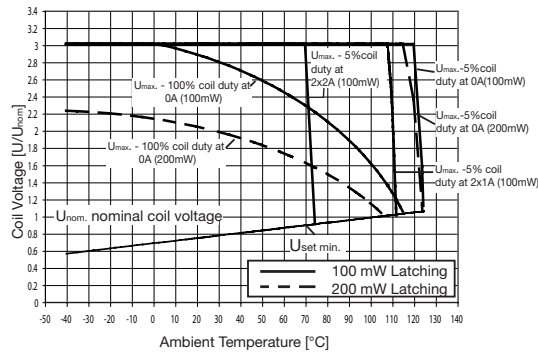
## IM - C Relay (Continued)

### Coil Data (continued)

#### Coil versions, bistable 1 coil

Coil code	Rated voltage VDC	Set voltage VDC	Reset Voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
41	3	2.25	-2.25	90	100

#### Coil operating range, bistable 1 coil



All figures are given for coil without pre-energization, at ambient temperature +23°C

Insulation	standard*	C*
	standard version	high dielectric version
Initial dielectric strength		
between open contacts	1000V <sub>rms</sub>	1600V <sub>rms</sub>
between contact and coil	1800V <sub>rms</sub>	2200V <sub>rms</sub>
between adjacent contacts		
Initial surge withstand voltage		
between open contacts	1500V	2200V
between contact and coil	2500V	3000V
Initial insulation resistance		
between insulated elements	>10 <sup>9</sup> Ω	>10 <sup>9</sup> Ω
Capacitance		
between open contacts		max. 1pF
between contact and coil		max. 2pF
between adjacent contacts		max. 2pF

\*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.

### RF Data

Cross talk at 100MHz/900MHz	-37.0dB/-18.8dB
Insertion loss at 100MHz/900MHz	0.03dB/0.33dB
Voltage standing wave ratio (VSWR) at 100MHz/900MHz	1.06/1.49

### 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](http://www.te.com/customersupport/rohssupportcenter)

Ambient temperature	-40°C to +85°C
Thermal resistance	<150K/W
Category of environmental protection	
IEC 61810	RT V - hermetically sealed
Degree of protection	
IEC 60529	IP 67, immersion cleanable

Vibration resistance (functional) 20g, 10 to 500Hz

Shock resistance (functional), half sinus 11ms 50g

Shock resistance (destructive), half sinus 0.5ms 500g

Weight max. 0.75g

### Other Data (continued)

Resistance to soldering heat THT Peak Value

IEC 60068-2-20 265°C/10s

Resistance to soldering heat SMT

IEC 60068-2-58 265°C/10s

Moisture sensitive level, JEDEC J-Std-020D MSL3

related only to SMT relays  
packed in original dry-packs

Ultrasonic cleaning not recommended

Packaging/unit

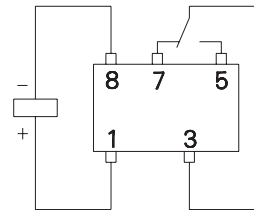
THT version tube/50pcs., box/1000 pcs.

SMT version reel/1000 pcs., box/1000 or 5000 pcs.

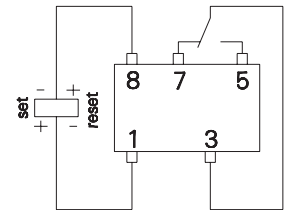
### Terminal assignment

TOP view on relay

Monostable version



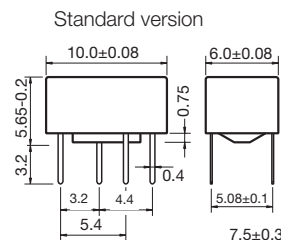
Bistable version, 1 coil reset condition



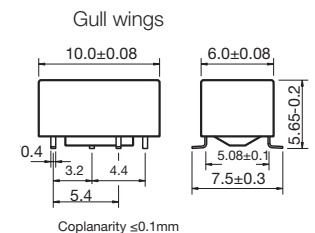
Contacts are shown in reset condition. Contact position might change during transportation and must be reset before use.

### Dimensions

#### THT version



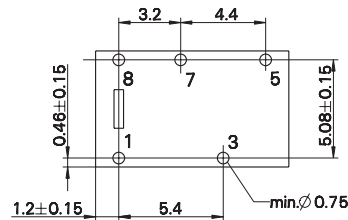
#### SMT version



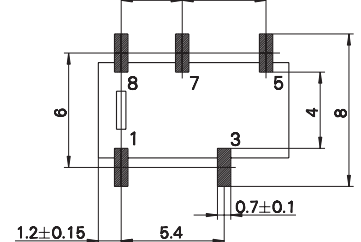
### PCB layout

TOP view on component side of PCB

#### THT mounting holes



#### SMT - solder pads





## IM - C Relay (Continued)

### Product code structure

Typical product code

IM

C

03

G

R

#### Type

IM Signal Relays IM Series IMC

#### Contact arrangement

C 1 form C, 1 CO

#### Coil

Coil code: please refer to coil versions table

#### Performance type

Blank Standard version

C High Dielectric Version

#### Terminals

T THT - standard

G SMT - gull wing

#### Packing

S Tube

R Reel

Product code	Arrangement	Perf. type	Coil	Coil type	Terminals	Part number
IMC01GR	1 form C,	Standard	3VDC	Monostable	SMT gull wing	1462042-1
IMC01TS	1 CO				THT standard	1462042-4
IMC02GR	contact		4.5VDC		SMT gull wing	1462042-2
IMC02TS					THT standard	1462042-5
IMC03GR			5VDC		SMT gull wing	1462042-8
IMC03TS					THT standard	1462042-7
IMC06GR			12VDC		SMT gull wing	1462042-3
IMC06TS					THT standard	1462042-6
IMC07GR			24VDC		SMT gull wing	1-1462042-1
IMC07TS					THT standard	1-1462042-2
IMC02CGR		High dielectric	4.5VDC		SMT gull wing	1-1462042-0
IMC06CGR			12VDC			1462042-9
IMC06CTS					THT standard	1-1462042-4
IMC41CTS			3VDC	Bistable		1-1462042-3