



IM - C Relay

- Minimum board-space 60 mm²
- Slim line 10x6mm (0.39x0.24") and low profile 5.65mm (0.222")
- Switching power 60W/62.5VA
- Switching voltage 220VDC/250VAC
- Switching current 4A
- **■** Bifurcated contacts
- High mechanical shock resistance

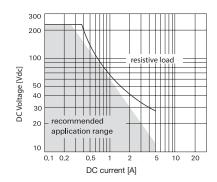
Typical applications

Telecommunication, access and transmission equipment, optical network terminals, modems, office and business equipment, consumer electronics, measurement and test equipment, industrial control, medical equipment



Contact Data	standard	С		
	standard	high dielectric		
	version	version		
Contact arrangement	1 Forr	n C (CO)		
Max. switching voltage	220VD0	C, 250VAC		
Rated current	4A	4A		
Limiting continuous current	3A	3A		
Switching power	60W,	62.5VA		
Contact material	Р	dRu		
	Au c	overed		
Contact style	twin o	contacts		
Min. recommended contact load	100	uV/1μA		
Initial contact resistance	$<$ 50m Ω at	10mA/ 30mV		
Thermoelectric potential	<10µV			
Operate time	typ. 1ms	, max. 3ms		
Release time				
without diode in parallel	typ. 1ms	, max. 3ms		
with diode in parallel	typ. 3ms	, max. 5ms		
Bounce time max.	typ. 1ms	, max. 5ms		
Electrical endurance				
at contact application 0				
(≤ 30mV / ≤ 10mA)		0 ⁶ operations		
cable load open end		0 ⁶ operations		
resistive, 125VDC / 0.24A - 30W	min. 5x10	⁵ operations		
resistive, 220 VDC / 0.27A - 60W	min. 1x10	⁵ operations		
resistive, 250VAC / 0.25A - 62.5VA	min. 1x10	⁵ operations		
resistive, 30VDC / 1A - 30W		⁵ operations		
resistive, 30VDC / 2A - 60W	min. 1x10	⁵ operations		

Max. DC load breaking capacity





IM_C

Contact Data (continued)	
UL contact rating	30VDC, 2A, 60W, NO only
	110VDC, 0.3A, 33W
	220VDC, 0.27A, 60W
	125VAC, 0.5A, 62.5W
	250VAC, 0.25A, 62.5W
Mechanical endurance	10 ⁸ operations

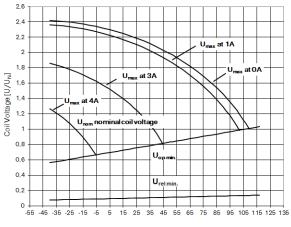
Coil Data	
Magnetic system	monostable, bistable
Coil voltage range	1.5 to 24VDC
Max. coil temperature	125°C.
Thermal resistance	<150K/W

Coil versions, standard version, monostable, 1 coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	set voltage min	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
01	3	2.25	0.30	64	140
02	4.5	3.38	0.45	145	140
03	5	3.75	0.50	178	140
06	12	9.00	1.20	1029	140
07	24	18.00	2.40	2880	140

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

Coil operating range, standard version





Signal Relays AXICOM

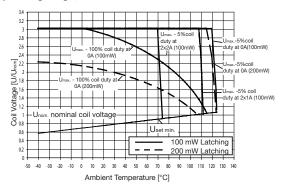
IM - C Relay (Continued)

Coil Data (continued)

Coil versions, bistable 1 coil

Coil	Rated	Set	Reset	Coil	Rated coil
code	voltage	voltage	Voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	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	high dielectric				
	version	version				
Initial dielectric strength						
between open contacts	1000V _{rms}	1600V _{rms}				
between contact and coil	1800V _{rms}	2200V _{rms}				
between adjacent contacts						
Initial surge withstand voltage						
between open contacts	1500V	2200V				
between contact and coil	2500V	3000V				
Initial insulation resistance						
between insulated elements	$>10^{9}\Omega$	$>10^{9}\Omega$				
Capacitance						
between open contacts	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

<u>W</u>	/ww.te.com/customersupport/ronssupportce
Ambient temperature	-40°C to +85°C
Thermal resistance	<150K/W
Category of environmental	protection

IEC 61810

Degree of protection IEC 60529 IP 6

RT V - hermetically sealed

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 orginal dry-packs
Ultrasonic cleaning not recommended

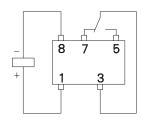
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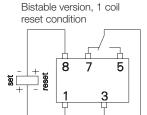
Packaging/unit

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

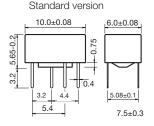




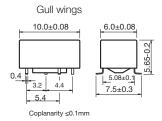
Contacts are shown in reset condition. Contact position might change during transportation and must be reset before use.

Dimensions

THT version

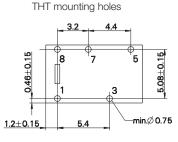


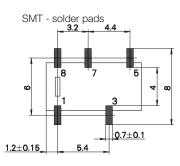
SMT version



PCB layout

TOP view on component side of PCB





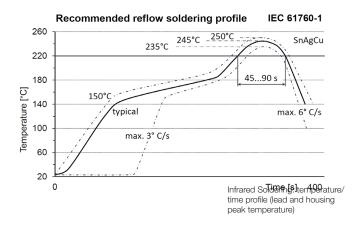


RELAY **PRODUCTS**

IM - C Relay (Continued)

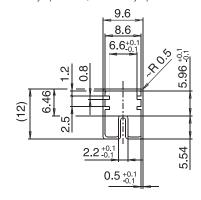
Processing

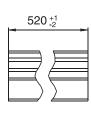
Recommended soldering conditions



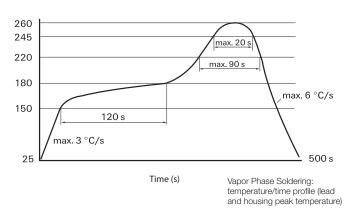
Packing

Tube for THT version 50 relays per tube, 1000 relays per box

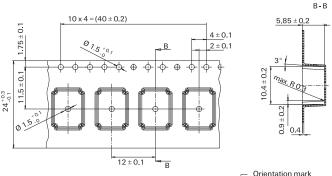




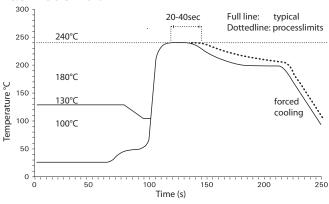
Resistance to soldering heat - Reflow profile

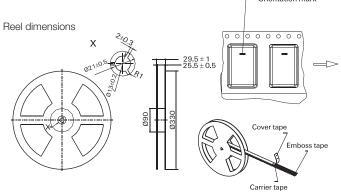


Tape and reel for SMT version 1000 relays per reel, 1000 or 5000 relays per box



Soldering conditions according IEC 60058-2-58 and IPC/JEDEC J-STD-020D









IM - C Relay (Continued)

Product code structure	٦	ypical product code	IM	С	03		G	R
Туре								
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	С	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			9VDC		THT standard	1-1462042-4
IMC41CTS			3VDC	Bistable		1-1462042-3

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