R10 Series Relay (Continued)

Coil versions, DC coil (continued)

Coil code	Maximum coil current mADC	Operate current mADC	Coil resistance Ω±10%	Pick-up coil power mW
J - sensitive DC current adjustment – R10S types only				
2 pole				
J500[1)]	–	6.3	500	20
J1.0K	–	4.5	1000	20
J2.5K[2)]	–	2.9	2500	25
J5.0K	–	2	5000	20
J10.0K[3)]	–	1.4	10000	20
J16.0K	–	1.2	16000	25
J30.0K	–	0.8	30000	20
4 pole				
J500	–	9	500	45
J1.0K	–	6.5	1000	45
J2.5K[2)]	–	4.1	2500	45
J5.0K[3)]	–	2.9	5000	45
J10.0K	–	2	10000	40
J16.0K	–	1.4	16000	35
J30.0K	–	1.2	30000	45
JJ - ultrasensitive DC current adjustment				
1 pole				
JJ1.0K	45	4.5	1000	20
JJ2.5K	28	2.9	2500	25
JJ5.0K	20	2.1	5000	25
JJ10.0K	14	1.5	10000	25
JJ15.0K	11.5	1.2	15000	25
JJ30.0K	8.3	0.85	30000	25
2 pole				
JJ1.0K	45	6.5	1000	45
JJ2.5K	28	4.1	2500	45
JJ5.0K	20	2.9	5000	45
JJ10.0K	14	2	10000	40
JJ15.0K	11.5	1.7	15000	45
JJ30.0K	8.3	1.2	30000	45
4 pole				
JJ1.0K	45	9	1000	85
JJ2.5K	28	5.8	2500	85
JJ5.0K	20	4.1	5000	85
JJ10.0K	14	3	10000	90
JJ15.0K	11.5	2.4	15000	85
JJ30.0K	8.3	1.7	30000	90

1) Suggested for 5VDC operation
2) Suggested for 12VDC operation
3) Suggested for 24VDC operation

All figures are given for coil without preenergization, at ambient temperature +23°C.

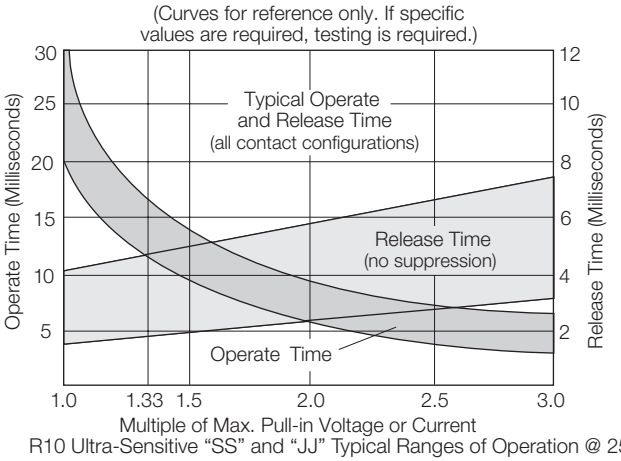
Coil versions, AC coil (dual coil diode rectified construction)

Coil code	Rated voltage VAC	Operate voltage VAC	Coil resistance Ω±20%
Standard AC			
2 and 4 pole			
6V	6	5	25
12V	12	9	120
24V	24	18	500
48V	48	36	2000
115V	115	86	9000
6 and 8 pole			
6V	6	5	15
12V	12	9	90
24V	24	18	350
48V	48	36	1400
115V	115	86	7500

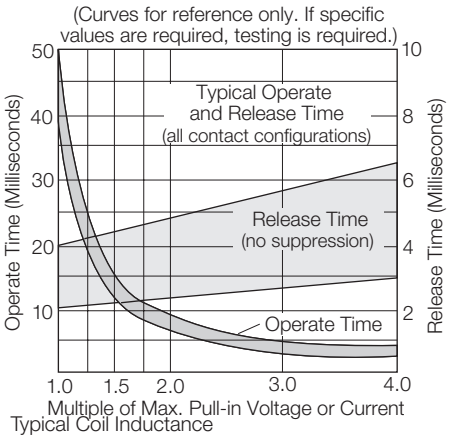
All figures are given for coil without preenergization, at ambient temperature +23°C.

Operative Range

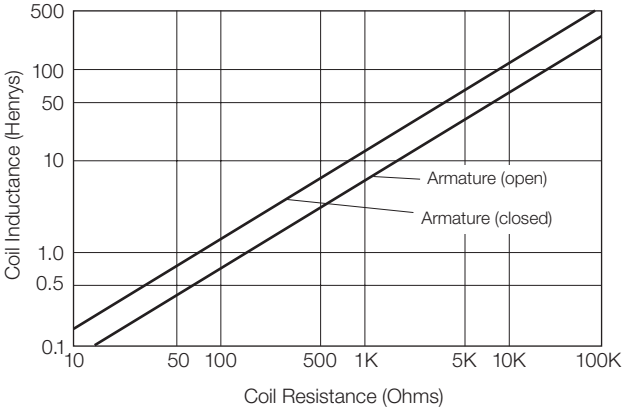
R10 Relays (DC Only) Typical Ranges of Operations @ 25°C



R10 Ultra-Sensitive "SS" and "JJ" Typical Ranges of Operation @ 25°C



Typical Coil Inductance



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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

R10 Series Relay (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	500V_{rms}
between contact and coil	1000V_{rms}
between adjacent contacts	1000V_{rms}
Initial insulation resistance	
between insulated elements	10GΩ, 500VDC

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	-55ºC to 75ºC
Category of environmental protection	
IEC 61810	RTI - dust protected and RTIII - wash tight

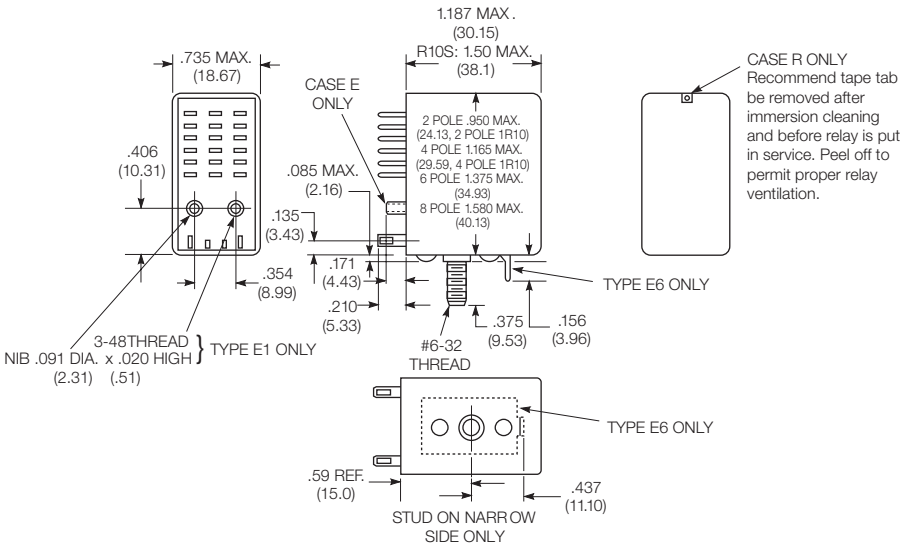
Other Data (continued)	
Terminal type	Solder/plug-in terminals, PCB-THT, 8- or 11-PIN octal type plug
Weight	23 to 40g
Packaging/unit	tray/50 pcs., box/350pcs.

Accessories	
For details see datasheet	Sockets and Accessories, R10 Relays

Product Code	Description
Many versions of sockets and clips available.	

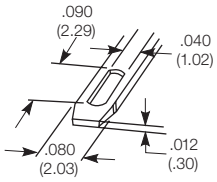
NOTE: Relays with contact current <50mA are not recommended for use in sockets.

Dimensions

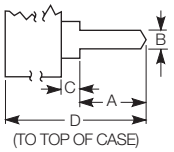


Terminal dimensions

Solder terminal dimensions

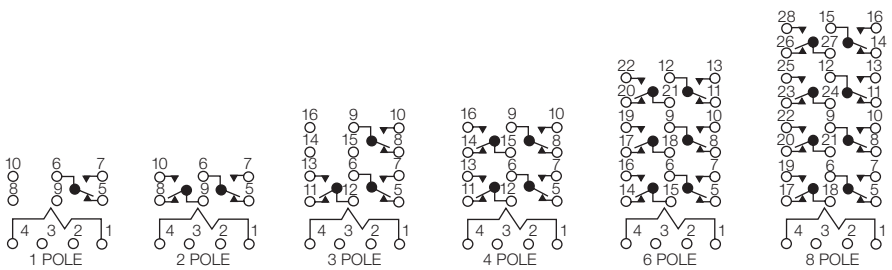


Printed circuit terminal dimensions

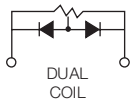


	A	B	C	D	Arrang.
Type 2	.131	.050	.064	1.251	Inline
Type 7	.131	.040	.013	1.20	Inline
Type 9	.170	.040	.000	1.187	Staggered
Thickness	.012	.012	.012	.013	—

Terminal assignment



R10 - AC Coil Diagram



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