

P2 Relay V23079 (Continued)

Coil Data (continued)

Coil versions, bistable

Coil code	Rated voltage VDC	Set voltage VDC	Limiting Voltage VDC	Reset voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
Bistable, 1 coil						
108	3.00	2.25	9.2	-2.25	128	70
111	4.50	3.38	13.85	-3.38	289	70
101	5.00	3.75	15.33	-3.75	357	70
102	6.00	4.50	18.5	-4.50	514	70
106	9.00	6.75	27.75	-6.75	1157	70
103	12.00	9.00	37	-9.00	2057	70
105*	24.00	18.00	74	-18.00	8228	70

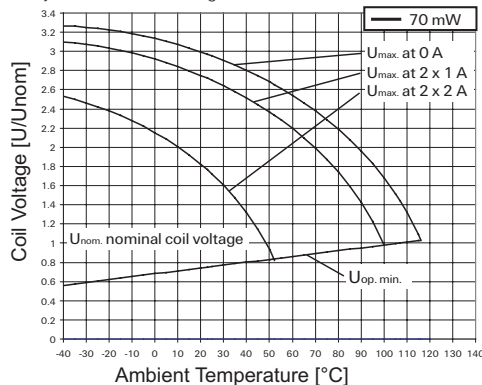
Bistable, 2 coil

219	2.00	1.50	4.33	1.50	28	140
218	2.40	1.80	5.2	1.80	41	140
208	3.00	2.25	6.5	2.25	64	140
211	4.50	3.38	9.8	3.38	145	140
201	5.00	3.75	10.9	3.75	178	140
202	6.00	4.50	13	4.50	257	140
206	9.00	6.75	19.6	6.75	578	140
203	12.00	9.00	26.15	9.00	1029	140
205*	24.00	18.00	52.3	18.00	4114	140

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

Other coil voltages on request.

* Available only in standard coil configurations

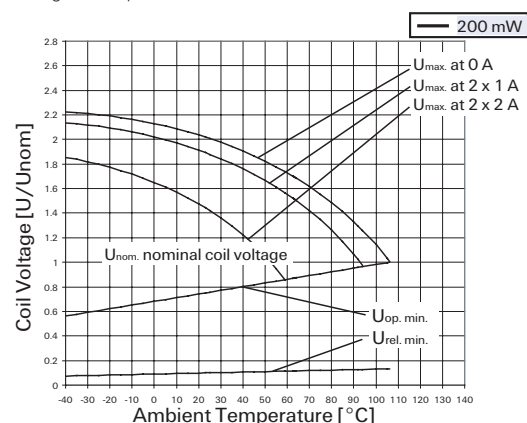


Coil versions, high dielectric version, monostable, overmolded

Coil code	Rated voltage VDC	Operate voltage VDC	Limiting Voltage VDC	Release Voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
008	3.00	2.25	6.1	0.30	45	200
001	5.00	3.75	10.1	0.50	125	200
002	6.00	4.50	12.1	0.60	180	200
006	9.00	6.75	18.2	0.90	405	200
003	12.00	9.00	24.2	1.20	720	200

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

Other coil voltages on request.



Insulation Data

	Standard	HDV
Initial dielectric strength		
between open contacts	1000V _{rms}	1500V _{rms}
between contact and coil	1500V _{rms}	1500V _{rms}
between adjacent contacts	1000 V _{rms}	1500V _{rms}
Initial surge withstand voltage according to Telcordia TR-NWT-001089 (2/10μs)		
between open contacts	2000V	2500V
between contact and coil	2500V	2500V
between adjacent contacts	2500V	2500V
according to (10/700 μs IEC 60950)		
between open contacts	2000V	2500V
between contact and coil	2500V	2500V
between adjacent contacts	2500V	2500V
Initial insulation resistance at 500 Vdc	> 10 ⁹ Ω	
Capacitance		
between open contacts	max. 1pF	
between contact and coil	max. 2pF	
between adjacent contacts	max. 1.5pF	
Clearance /creepage according to IEC / EN 60950	1.3/2.5mm	

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter

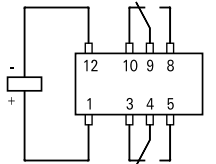
Ambient temperature	-40 to +85°C
Category of environmental protection IEC 61810	RT III - wash tight
Vibration resistance (functional)	35g, 10 to 1000Hz
Shock resistance (functional) IEC 60068-2-27 (half sine)	100g
Terminal type	PCB-THT, SMT long and short terminals
Weight	max. 2.8 g
Resistance to soldering heat THT IEC 60068-2-20	265°C/10s
Moisture sensitive level, JEDEC J-Std-020E	MSL3
Related to SMT relays and THT relays packed in reel	
Ultrasonic cleaning	not recommended
Packaging/unit	
THT	tubes/2000 pcs.
THT	reel/1500 pcs.
SMT	reel/2000 pcs. or 2500 pcs.

P2 Relay V23079 (Continued)

Terminal assignment

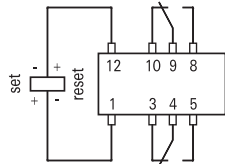
TOP view on component side of PCB

Monostable version



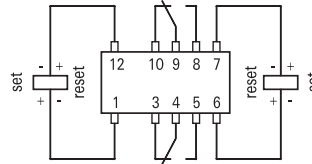
ECR0912-C

Bistable version, 1-coil



ECR0912-C

Bistable version, 2-coils



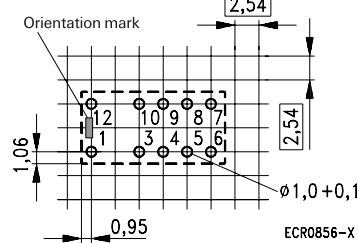
ECR0913-K

Contacts are shown in reset condition.
Both coils can be used as either set or reset coils.
Contact position might change during transportation and must be reset before use.

PCB layout

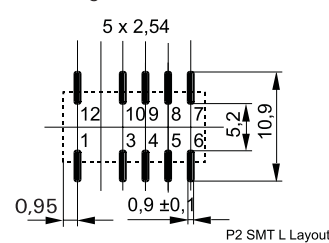
TOP view on component side of PCB

THT version



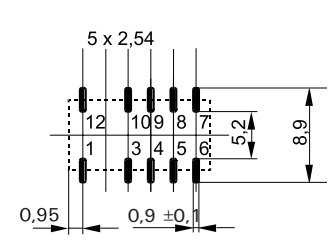
ECR0856-X

SMT, long terminals



P2 SMT L Layout

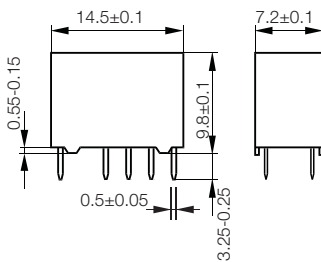
SMT, short terminals



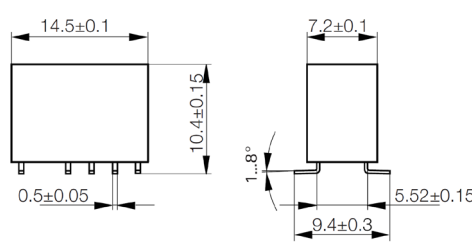
Dimensions

Standard coil

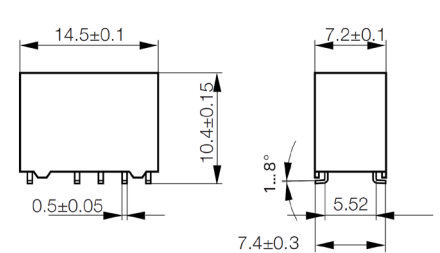
THT version



SMT, long terminals

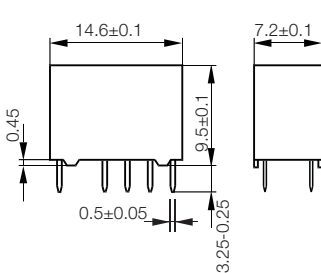


SMT, short terminals

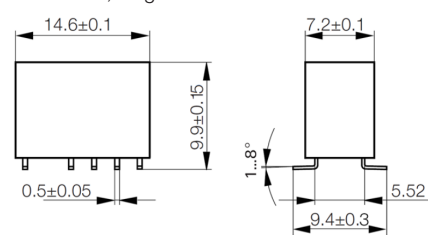


Overmolded coil, high dielectric version

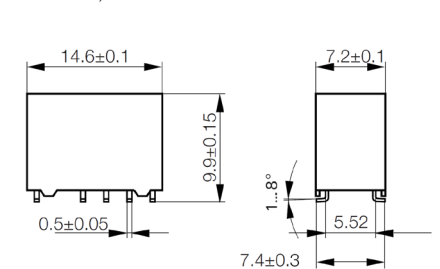
THT version



SMT, long terminals

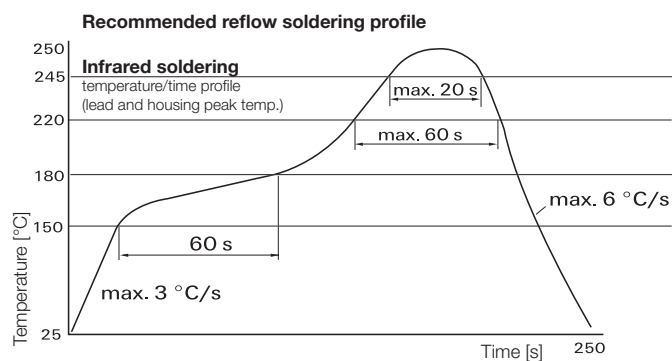
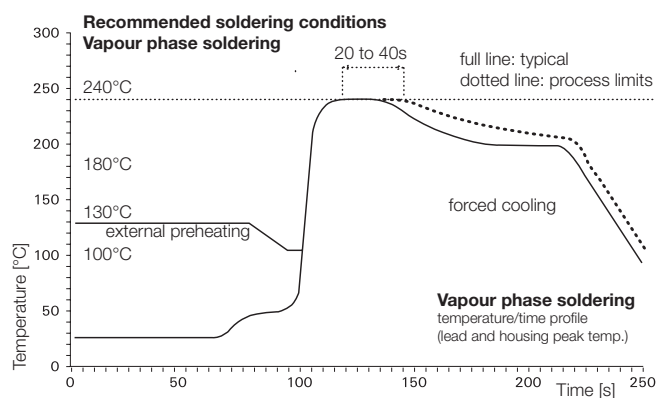


SMT, short terminals



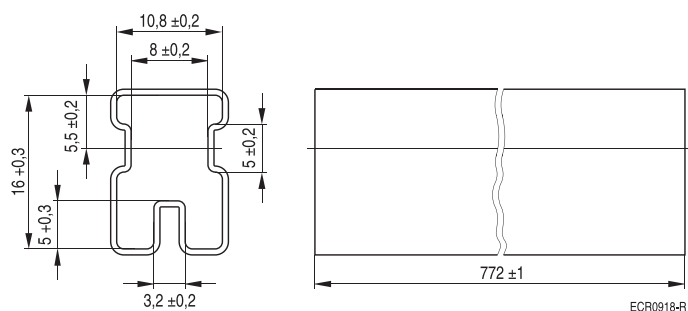
P2 Relay V23079 (Continued)

Processing

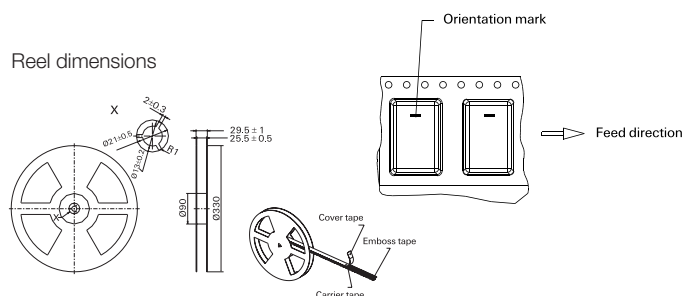


Packing

Packing THT-tubes

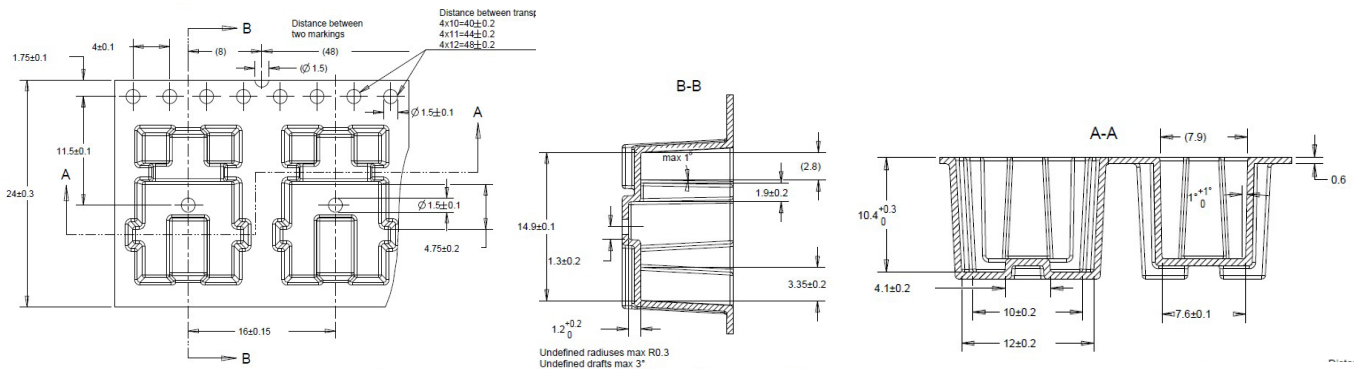


Reel dimensions

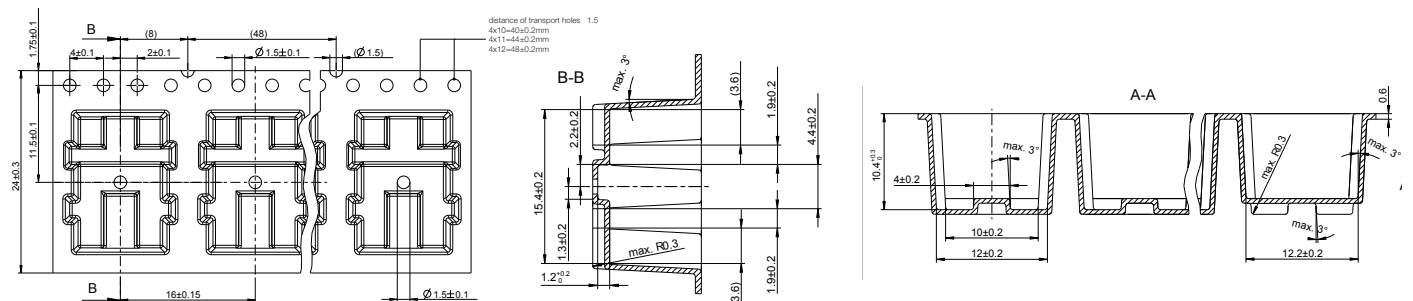


P2 Relay V23079 (Continued)

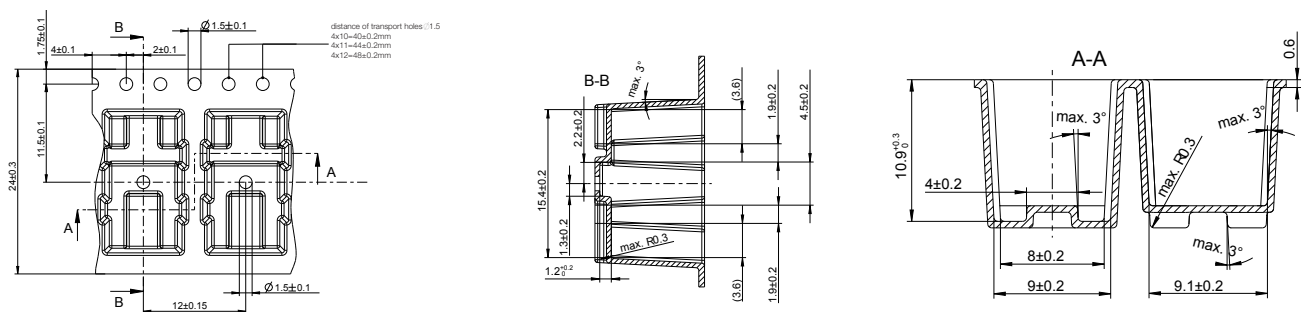
SMT - LONG TERMINALS, OVERMOLDED COIL



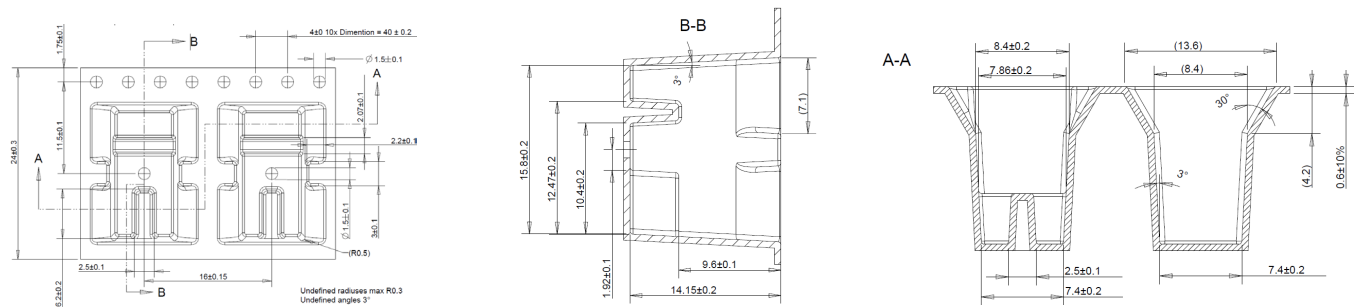
SMT - LONG TERMINALS, STANDARD COIL



SMT - SHORT TERMINALS



THT - REEL



P2 Relay V23079 (Continued)

Product code structure

Typical product code

V23079 A 1 001 B 301
Type
V23079 Signal Relay P2 Series

Version

A THT, monostable	D SMT, monostable, long term.	G SMT, monostable, short term.
B THT, latching, 2 coils	E SMT, latching, 2 coils long term.	H SMT, latching, 2 coils short term.
C THT, latching, 1 coil	F SMT, latching, 1 coil long term.	J SMT, latching, 1 coil short term.

Coil design

1 Standard coil (not for high dielectric version)
2 Overmolded coil

Coil

Coil code: please refer to coil versions table

Version

B Standard version
X Special version (High dielectric, THT packed in reel)

Contacts for standard versions

301 2 form C contacts (2 CO), AgNi +Au

Contacts for dielectric versions

07* 2 form C contacts (2 CO), AgNi +Au

Packing
X1** THT version packed in reel

* any digit

Product code	Version	Coil design	Coil type	Coil voltage	Part number
V23079-A1001-B301	THT	Standard	Monostable	5VDC	1393788-3
V23079-A1006-B301				9VDC	2-1393788-0
V23079-A1005-B301				24VDC	1-1393788-6
V23079-A1008-B301				3VDC	2-1393788-2
V23079-A2008-B301		Overmolded		3VDC	6-1419120-6
V23079-A2011-B301				4.5VDC	3-1393789-9
V23079-A2001-B301				5VDC	3-1393789-5
V23079-A2002-B301				6VDC	3-1393789-6
V23079-A2006-B301				9VDC	3-1393789-8
V23079-A2003-B301				12VDC	3-1393789-7
V23079-B1218-B301		Standard	Bistable, 2 coils	2.4VDC	1422002-8
V23079-B1208-B301				3VDC	4-1393788-1
V23079-B1211-B301				4.5VDC	4-1393788-2
V23079-B1201-B301				5VDC	3-1393788-3
V23079-B1202-B301				6VDC	3-1393788-5
V23079-B1206-B301				9VDC	3-1393788-9
V23079-B1203-B301				12VDC	3-1393788-6
V23079-B1205-B301				24VDC	3-1393788-7
V23079-B2219-B301		Overmolded		2VDC	1-1422002-2
V23079-B2218-B301				2.4VDC	1-1422002-1
V23079-B2208-B301				3VDC	1-1422002-0
V23079-B2201-B301				5VDC	1422002-9
V23079-C1108-B301		Standard	Bistable, 1 coils	3VDC	5-1393788-3
V23079-C1111-B301				4.5VDC	5-1393788-4
V23079-C1101-B301				5VDC	4-1393788-5
V23079-C1102-B301				6VDC	4-1393788-7
V23079-C1106-B301				9VDC	5-1393788-1

P2 Relay V23079 (Continued)

Product code	Version	Coil design	Coil type	Coil voltage	Part number
V23079-D1001-B301	SMT, long pins	Standard	Monostable	5VDC	5-1393788-5
V23079-D1003-B301				12VDC	5-1393788-7
V23079-D1006-B301				9VDC	5-1393788-9
V23079-D1005-B301				24VDC	5-1393788-8
V23079-D1008-B301		Overmolded		3VDC	6-1393788-1
V23079-D1011-B301				4.5VDC	6-1393788-2
V23079-D2008-B301				3VDC	4-1393789-7
V23079-D2011-B301				4.5VDC	4-1393789-8
V23079-D2001-B301				5VDC	4-1393789-3
V23079-D2002-B301				6VDC	4-1393789-4
V23079-D2006-B301				9VDC	4-1393789-6
V23079-D2003-B301				12VDC	4-1393789-5
V23079-E1219-B301		Standard	Bistable, 2 coils	2VDC	1-1422007-0
V23079-E1218-B301				2.4VDC	1422007-5
V23079-E1208-B301				3VDC	7-1393788-1
V23079-E1211-B301				4.5VDC	7-1393788-2
V23079-E1201-B301				5VDC	6-1393788-8
V23079-E1202-B301				6VDC	1393789-5
V23079-E1206-B301				9VDC	1393789-9
V23079-E1203-B301				12VDC	6-1393788-9
V23079-E1205-B301		Overmolded		24VDC	7-1393788-0
V23079-E2219-B301				2VDC	1422007-6
V23079-E2201-B301				5VDC	1422007-7
V23079-E2208-B301				3VDC	1422007-8
V23079-E2218-B301				2.4VDC	1422007-9
V23079-F1108-B301	SMT, short pins	Standard	Bistable, 1 coil	3VDC	7-1393788-5
V23079-F1111-B301				4.5VDC	1-1393789-4
V23079-F1101-B301				5VDC	7-1393788-3
V23079-F1102-B301				6VDC	1-1393789-0
V23079-F1106-B301				9VDC	1-1393789-2
V23079-F1103-B301				12VDC	7-1393788-4
V23079-F1105-B301				24VDC	1-1393789-1
V23079-G1001-B301			Monostable	5VDC	7-1393788-6
V23079-G1005-B301				24VDC	7-1393788-8
V23079-G2008-B301		Overmolded		3VDC	5-1393789-4
V23079-G2016-B301				4VDC	1393790-5
V23079-G2011-B301				4.5VDC	5-1393789-5
V23079-G2001-B301				5VDC	4-1393789-9
V23079-G2002-B301		Standard		6VDC	5-1393789-0
V23079-G2006-B301				9VDC	5-1393789-3
V23079-G2003-B301				12VDC	5-1393789-1
V23079-H1208-B301			Bistable, 2 coils	3VDC	2-1393789-4
V23079-H1211-B301				4.5VDC	8-1393788-4
V23079-H1201-B301				5VDC	2-1393789-0
V23079-H1202-B301				6VDC	2-1393789-1
V23079-H1206-B301				9VDC	2-1393789-3
V23079-H1203-B301				12VDC	8-1393788-3
V23079-H1205-B301				24VDC	2-1393789-2
V23079-J1108-B301			Bistable, 1 coil	3VDC	2-1393789-9
V23079-J1111-B301				4.5VDC	3-1393789-0
V23079-J1101-B301				5VDC	2-1393789-5
V23079-J1102-B301				6VDC	2-1393789-6
V23079-J1103-B301				12VDC	2-1393789-7
V23079-J1105-B301				24VDC	2-1393789-8
V23079-G2008-X079	SMT, short pins	High dielectric Overmolded	Monostable	3VDC	1422006-5
V23079-G2001-X071				5VDC	1422006-1
V23079-G2002-X072				6VDC	1422006-2
V23079-G2006-X073				9VDC	1422006-3
V23079-G2003-X074	THT			12VDC	1422006-4
V23079-A2003-X074				12VDC	1422025-7
V23079-A2008-X079				3VDC	1-1422025-1
V23079-A2008-X101				3VDC	6-1419170-9
V23079-A2011-X102	THT packed in reel	Overmolded		4.5VDC	3-1393790-1
V23079-A2001-X103				5VDC	3-1393790-2
V23079-A2002-X104				6VDC	3-1393790-3
V23079-A2006-X105				9VDC	3-1393790-4
V23079-A2003-X106				12VDC	3-1393790-5
V23079-B2219-X107				2VDC	1-1422003-0
V23079-B2218-X108				2.4VDC	1-1422003-1
V23079-B2208-X109				3VDC	1-1422003-2
V23079-B2201-X110				5VDC	1422003-3