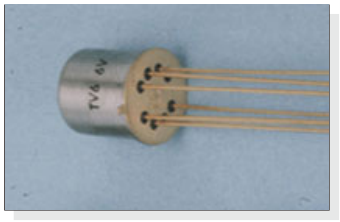


A COMPANY OF STPI GROUP

Series TV

Sensitive ultraminiature «TO 5 transistor size» non latching relays 28 V / 1 A pick-up power ⩽60 mW

APPLICATION SPECIFICATIONS
MIL-R-39016/11 -/16 -/21
CECC 1601-016

General characteristics

N° of pole	2 Pdt
Volume	0,54 cm ^{3}
Mass	2,7 g with leads 38 mm*[1.500]* lenght 2,3 g with leads 4,75 mm*[.187]* lenght 2,7 g with spreader pad, leads 4,75 mm*[.187]* lenght

Switching characteristics

Life at rated load	1 x 10 ^{5} operations mini
Nominal contact rating on power supply 28 V d c	1 A resistive load 0,2 A inductive load (inductance 320 mH) Lamp: 0,10 A at 28 Vdc
Operating time at 25° C	4 ms max
Release time at 25° C T	2 ms max
TV S - TV SS	7,5 ms max
Bounce time at 25° C	1,5 ms max
Overload (100 cycles)	2 Amperes

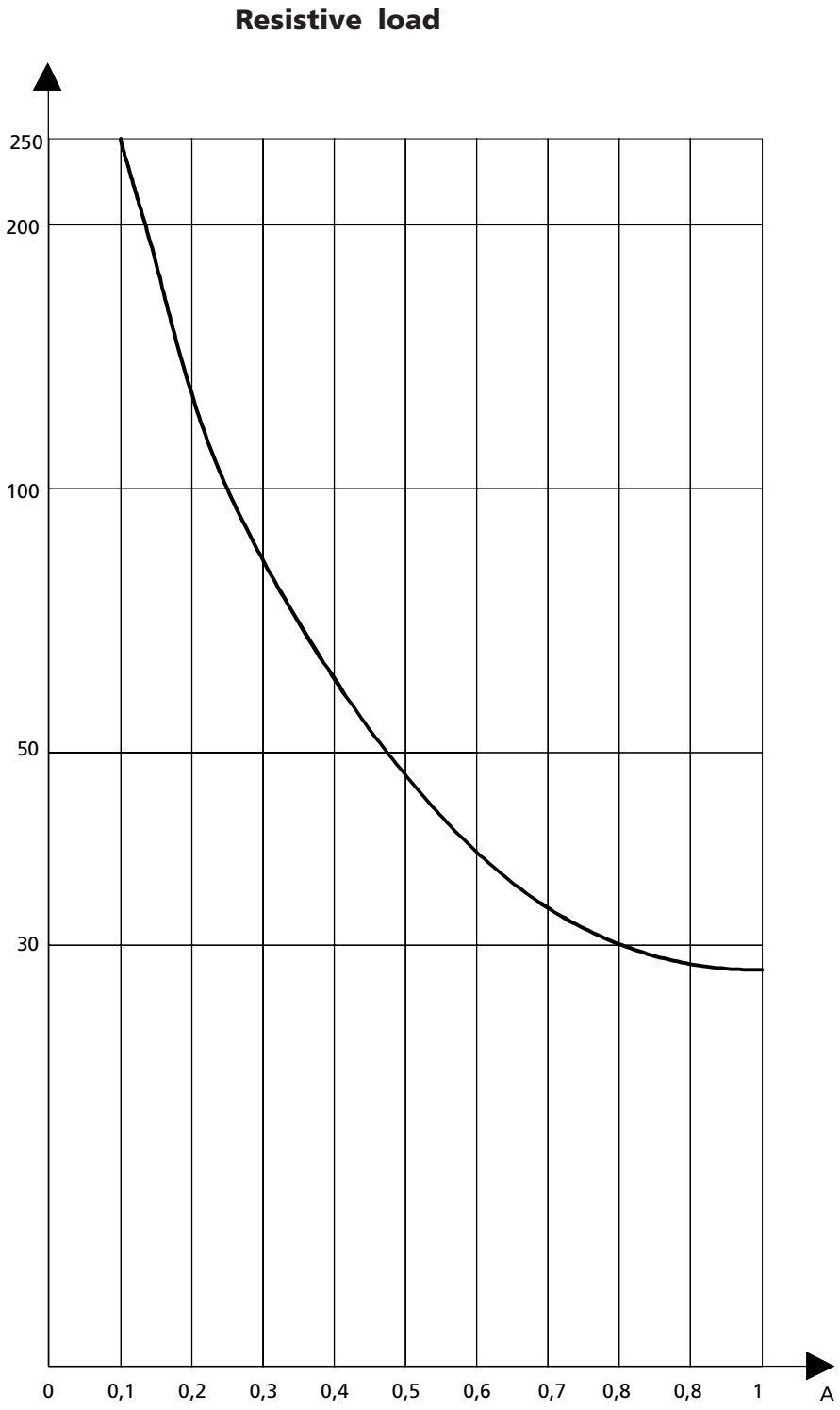
Environmental characteristics

Temperature range	- 65° C to + 125° C
Vibration	30 g 3 000 Hz
Shock	75 g 6 ms
Opening contact maxi	10 µs
Leak rate	≤ 1 x 10 $^{-8}$ atm . cm ^{3} / s

Electrical characteristics

		Relay with spreader pad
Contact resistance (measured at 3,2 mm from the header)		
- Initial	0,10 Ω max	0,12 Ω max
- After life	0,20 Ω max	0,22 Ω max
Dielectric strength (see level)		
Between contacts and case	500 V rms	
Between coil and case	500 V rms	
Between open contact	500 V rms	
Between terminals at 22 000 m altitude	125 V rms	
Insulation resistance (at 20°C, 50% relative humidity)	> 10 000 M Ω at 500 V dc	
Coil / case at 125 °C	> 1 000 M Ω	
Coil data	see page 4	

Switching capacities for different life cycles as a fonction of voltage



Part numbering system

**** TV * 5 P * * *****

VERSION

RB : Blue ribbon

RELAY TYPE

OPTION

without suffix: No suppressor network

S : with coil transient suppression device

SS : with coil transient suppression device and polarity reversal protection (consult us)

COIL CODE

5 , **6** ,... (see page 4)

HEADER TERMINAL STYLE

without suffix: Gold plated leads, 38 mm*[1.500]* lenght

P : Leads, 4,75 mm *[.187]* lenght (see page 5)

R : Leads, 12,7 mm*[.500]* lenght

E : Spreader pad, leads, 4,75 mm*[.187]* lenght

E R : Spreader pad, leads, 9,4 mm[.370] lenght

N : Spacer pad, leads, 38 mm*[1.500]* lenght

N R : Spacer pad, leads, 12,7 mm*[.500]* lenght

N P : Spacer pad, leads, 4,75 mm*[.187]* lenght

PLATED TERMINAL

without suffix: Gold plated leads

B : Tin plated leads

LOW LEVEL TEST

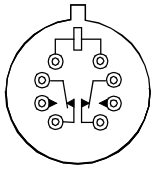
S : Systematically included in «Blue Ribbon» version

SPECIAL FEATURE

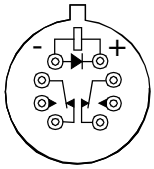
(Consult us)

Connection diagram

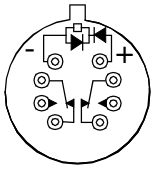
Series TV



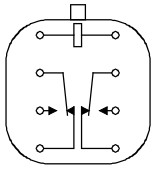
Series TV S



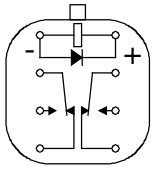
Series TV SS



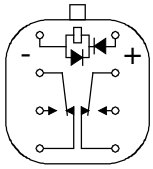
Series TV . . E



Series TV S . . E



Series TV SS . . E



Standard

Coil transient suppression device

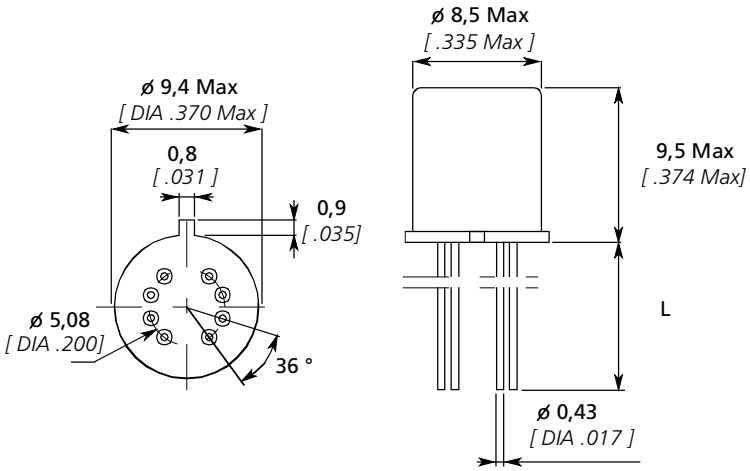
Coil transient suppression device and polarity reversal protection (contact us)

Viewed from terminals side
(unenergized coil)

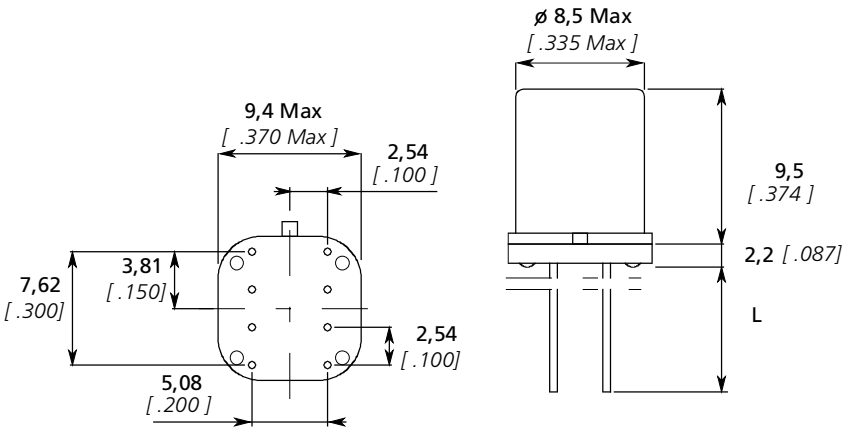
Coil characteristics

COIL	Nominal	Maximum	Coil resistance	Maximum pull-in		Maximum drop out		Minimum drop out	
CODE	coil voltage	voltage	Ohms ±10% at 20 °C	125°C	20 °C	125°C	20 °C	- 65°C	20 °C
5	5	7,5	100	3,5	2,6	2,5	1,4	0,12	0,23
6	6	10	200	4,5	3,4	3,2	2,0	0,18	0,28
9	9	15	400	6,8	4,85	4,9	3,0	0,35	0,55
12	12	20	850	9,0	7,0	6,5	4,0	0,41	0,64
18	18	30	1 600	13,5	9,8	10,0	6,0	0,59	0,92
26	26,5	40	3 300	18,0	14,0	13,0	8,0	0,89	1,40
36	36	57	6 500	27,0	20,0	19,0	10,0	1,25	1,80
48	48	75	11 000	36,0	25,8	26,0	13,0	1,60	2,40

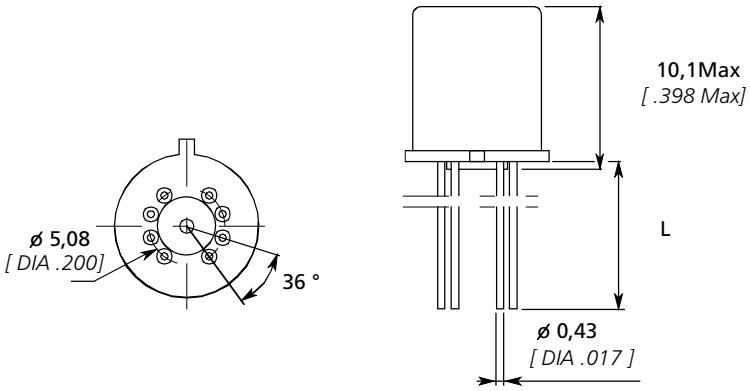
Overall dimensions and header terminal styles



without suffix	L : 38 *[1.500]*
P	L : 4,75 *[.187]*
R	L : 12,7 *[.500]*



E	L : 4,75 *[.187]*
E R	L : 9,4 mini *[.370 mini]*



N	L : 38 *[1.500]*
N R	L : 12,7 *[.500]*
N P	L : 4,75 *[.187]*