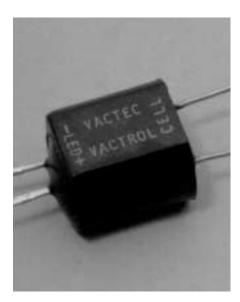
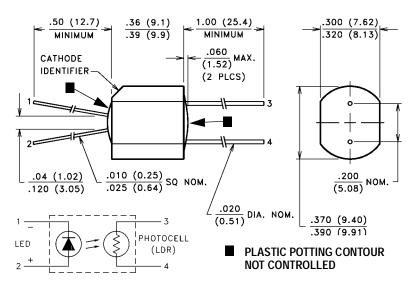
Low Cost Axial Vactrols

VTL5C6, 5C7



PACKAGE DIMENSIONS INCH (MM)



DESCRIPTION

VTL5C6 has a large dynamic range, high dark resistance, a low temperature coeffecient of resistance, and a small light history memory. VTL5C7 is a shallow sloped device with good dynamic range, average temperature coefficient of resistance, speed of response, and light history memory.

ABSOLUTE MAXIMUM RATINGS @ 25°C

Maximum Temperatures		LED Forward Voltage Drop @ 20 mA:	2.0V (1.65V Typ.)		
Storage and Operating:	–40°C to 75°C 175 mW	Min. Isolation Voltage @ 70% Rel. Humidity: 2500 VRMS			
Derate above 30°C: LED Current:	3.9 mW/°C 40 mA 🚹	Output Cell Capacitance:	5.0 pF		
Derate above 30°C:	0.9 mA/°C	Cell Voltage:	250V (VTL5C6), 50V (VTL5C7)		
LED Reverse Breakdown Voltage:	3.0 V	Input - Output Coupling Capacitance:	0.5 pF		

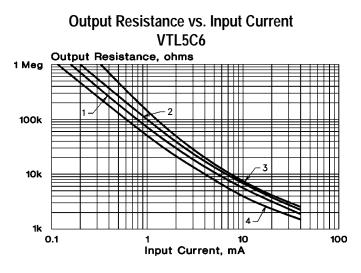
ELECTRO-OPTICAL CHARCTERISTICS @ 25°C

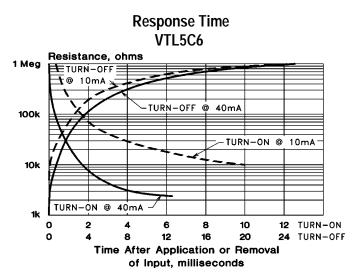
Part N Number	Material Type	ON Resistance 2		OFF 3 Resistance @ 10 sec. (Min.)	Slope (Typ.) @ 0.5 mA	Dynamic Range (Typ.) R _{DARK}	Response Time 4		
		Input current (Typ.)	Turn-on to 63% Final R _{ON}				Turn-off (Decay) to (Max.)		
			(Тур.)		R@5mA	R@ 20 mA	(Тур.)	1 MΩ	100 kΩ
VTL5C6	0	1 mA 10 mA 40 mA	75 kΩ 10 kΩ 2 kΩ	100 MΩ	16.7	88 db	3.5 ms	50 ms	
VTL5C7	7	0.4 mA 2 mA	5 kΩ 1.1 kΩ	1 MΩ	5.7	75 db	6.0 ms		1 sec

Refer to Specification Notes, page 41.

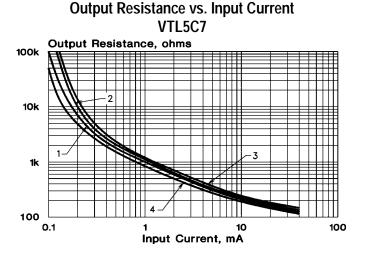
PerkinElmer Optoelectronics, 10900 Page Ave., St. Louis, MO 63132 USA

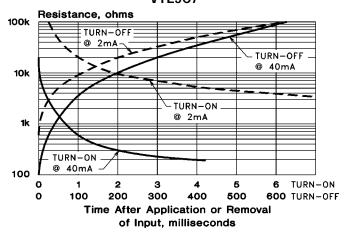
Typical Performance Curves

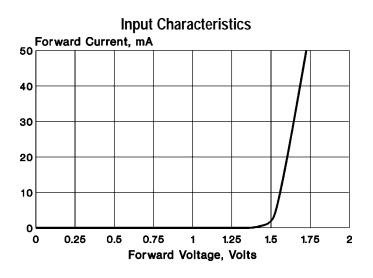




Response Time VTL5C7







PerkinElmer Optoelectronics, 10900 Page Ave., St. Louis, MO 63132 USA

Notes:

- At 1.0 mA and below, units may have substantially higher resistance than shown in the typical curves. Consult factory if closely controlled characteristics are required at low input currents.
- 2. Output resistance vs input current transfer curves are given for the following light adapt conditions:
 - (1) $25^{\circ}\text{C} 24$ hours @ no input
 - (2) $25^{\circ}\text{C} 24$ hours @ 40 mA input
 - (3) $+50^{\circ}C 24$ hours @ 40 mA input
 - (4) $-20^{\circ}C 24$ hours @ 40 mA input
- 3. Response time characteristics are based upon test following adapt condition (2) above.