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June 14 , 2004

The information below is also available in PDF format which can be read in Adobe® Acrobat® by clicking on this link:  
[http://www.vishay.com/marcom/hn/announcements/npi\\_phdet\\_temt3700f.pdf](http://www.vishay.com/marcom/hn/announcements/npi_phdet_temt3700f.pdf)  
To access the product datasheets on the Vishay Web site, go to:  
<http://www.vishay.com/doc?81582> (TEMT3700F)

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## New SMD Phototransistor with Integrated IR Filter

### The News:

Vishay Sensor& IRDC Division continues SMD series with TEMT3700F, Phototransistor with integrated IR Filter. Spectral responsivity is matched to IR Emitters using wavelength of 950nm or 870nm.



### Features:

- High sensitivity:  $I_{ca} = 0.5 \text{ mA} @ E_e = 1 \text{ mW/cm}^2$
- Angle of half sensitivity +/- 60 deg.
- IR filter band width 860nm to 1050nm

### The Key Applications:

- Transmissive sensors
- Reflective sensors
- Touch sensors
- Proximity sensors

### The Perspective:

TEMT3700F is dedicated to operate in different sensor applications under ambient light condition. The integrated IR Filter suppresses visible radiation to improve signal noise ratio (SNR) for infrared radiation. TSML3710 is the recommended IR Emitter for Photo interrupter or sensor design.

### Availability:

Samples available, Volume start in Q3/2004

**Lead times: 12 Weeks**

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