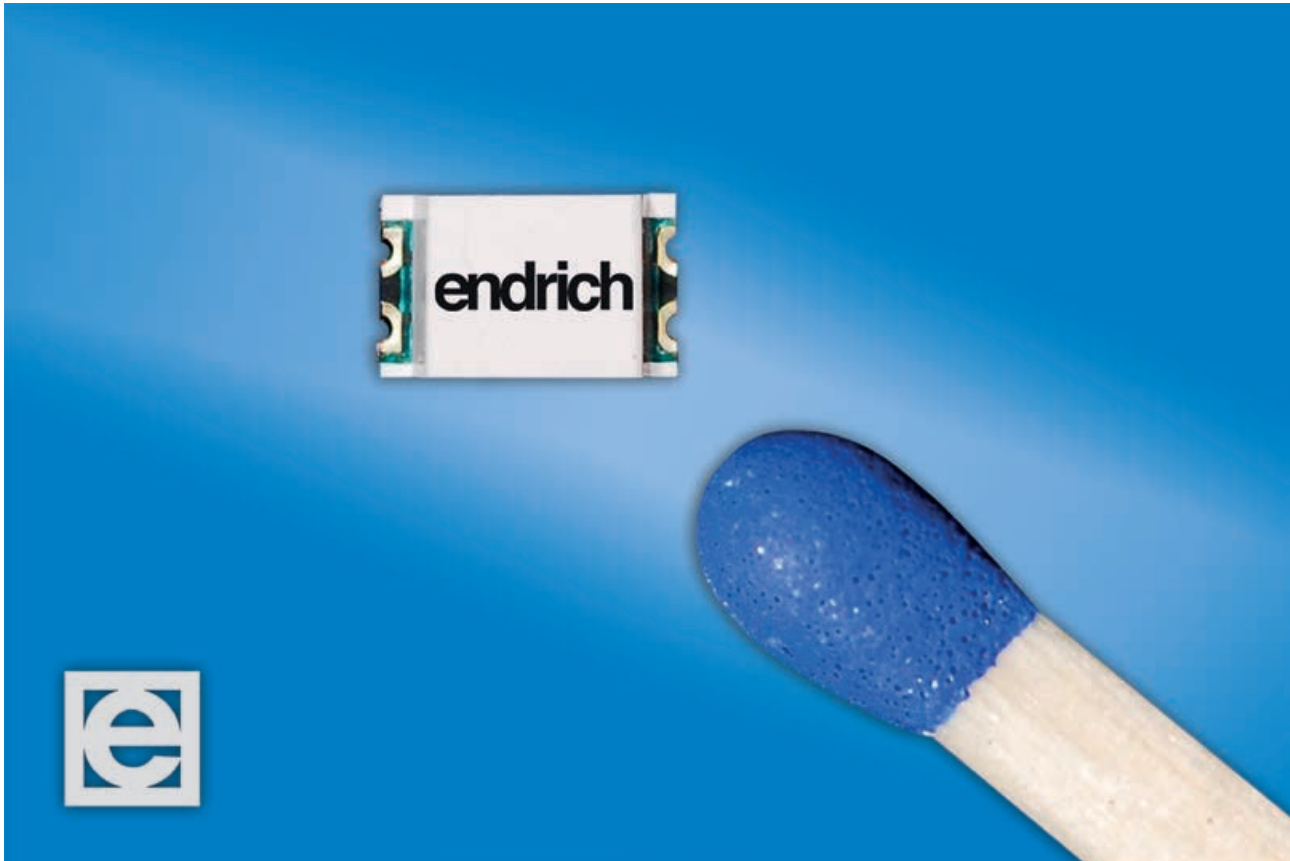


CT MICRO'S NEW 4-PIN DFN PACKAGE OPTOCOUPLER, WITH LOW INPUT CURRENT



Flatest phototransistor optocoupler in the world!

In an Optocoupler world, the word “small” might not be well applicable given the main function of the package is to provide physical isolation between two different potential voltages on any system. However, when the current slimmest package is not good enough for a customer, and other manufacturer say that thinner is not possible at the moment, we implement the “not possible”, by introducing the slimmest DFN Optocoupler package in the world. This brand new ultra slim package has a 25 % reduced thickness compared to the

2 mm height of a Mini-Flat Package or 65 % slimmer if compared to the most common 4Pin DIP Coupler in the market. This great achievement in thickness is possible by using the patented Double-Molded Co-planar (DMCTM) technology which helps to realize a 2.5 kVrms/min of isolation voltage and to be able to ensure a physical internal isolation distance of 0.5 mm. On optical performance wise, the new CTP17 phototransistor opto coupler comes with a CTR performance guarantee at low driving input of 1 mA.



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FEATURES

- Patented Double-Molded Coplanar(DMCTM) design which offers top-of-the-class high isolation voltage performance and overall package robustness for ultra slim package type.
- A guaranteed CTR of 100 % - 300 % at test conditions of $I_F = 1 \text{ mA}/V_{ce} = 5 \text{ V}$ for low current design flexibility & overall system performance as well as efficiency.
- Low Forward Voltage of typ. 1.24 V @ $I_F = 10 \text{ mA}$

FEATURES

- 2.5 kVrms/min of high isolation voltage with physical internal isolation of $\geq 0.4 \text{ mm}$
- High operating temperature of 110°C (125°C under development) to improve the overall high temperature reliability
- Easily expandable to dual and quad channel device with unique DFN package design to serve high density system.
- 100 % Pb-free & RoHS compliant with optional on Halogen Free selection to meet all green environmental initiative

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETERS	RATINGS	UNITS	NOTES
ABSOLUTE MAXIMUM RATING AT 25°C				
V_{ISO}	Isolation voltage	2500	V_{RMS}	
P_{TOT}	Total power dissipation	135	mW	
T_{OPR}	Operating temperature	-55 ~ +125	°C	
T_{STG}	Storage temperature	-55 ~ +150	°C	
T_{SOL}	Soldering temperature	260	°C	

SYMBOL	PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS	NOTES
EMITTER CHARACTERISTICS							
V_F	Forward voltage	$I_F = 10 \text{ mA}$	-	1.24	1.4	V	
I_R	Reverse Current	$V_R = 6 \text{ V}$	-	-	5	μA	
C_{IN}	Input Capacitance	$f = 1 \text{ MHz}$	-	10	30	pF	