

Title (en)

VARIABLE TEMPERATURE COEFFICIENT LEVEL SHIFTER.

Title (de)

STANDVERSTELLVORRICHTUNG EINES VERÄNDERLICHEN TEMPERATURKOEFFIZIENTEN.

Title (fr)

DISPOSITIF DE DECALAGE DU NIVEAU DU COEFFICIENT DE TEMPERATURE VARIABLE.

Publication

EP 0072842 A4 19840406 (EN)

Application

EP 82900756 A 19820125

Priority

US 23609181 A 19810220

Abstract (en)

[origin: WO8202964A1] A variable temperature coefficient level shifter includes a circuit which generates a voltage V_{BE} having a negative temperature coefficient and a voltage V_{BE} having a positive temperature coefficient. A control current is generated by placing a first resistor (R_N) between V_{BE} and ground and a second resistor (R_P) between V_{BE} and ground. Each of these currents forms a component of the control current which then has some net temperature coefficient. By properly scaling the resistors the control current may have any desired temperature coefficient between 2800ppm and 3000ppm. Once the temperature coefficient is set, a third resistor (R_S) is provided through which the control current flows. The amplitude of the shift is then selected by selecting the value of resistor (R_S).

IPC 1-7

G05F 3/08

IPC 8 full level

G05F 3/30 (2006.01)

CPC (source: EP)

G05F 3/30 (2013.01)

Citation (search report)

- [A] FR 2339719 A1 19770826 - STRATHCLYDE PRECAST CONCRETE L [GB]
- [XP] DE 3006598 A1 19810827 - BOSCH GMBH ROBERT [DE]
- [X] IEEE JOURNAL OF SOLID-STATE CIRCUITS, Band SC-11, no. 6, December 1976, NEW YORK (US)

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DOCDB simple family (application)

US 8200100 W 19820125; EP 82900756 A 19820125; IT 4774582 A 19820208; JP 50077882 A 19820125