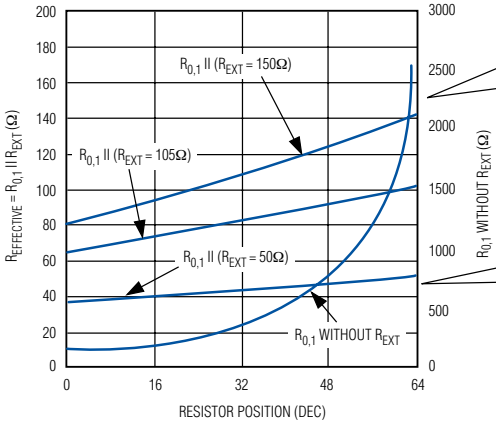
WORLD'S LOWEST RESISTANCE VARIABLE-RESISTOR SOLUTION

Provides Very Low Resistance and Linear Steps when Paired with External Resistors

NONVOLATILE RESISTOR SETTING IS IDEAL FOR CALIBRATION APPLICATIONS

RESISTANCE vs. POSITION



PSEUDO-LOGARITHMIC SCALE PROVIDES LINEAR STEPS WHEN USED WITH EXTERNAL FIXED RESISTOR

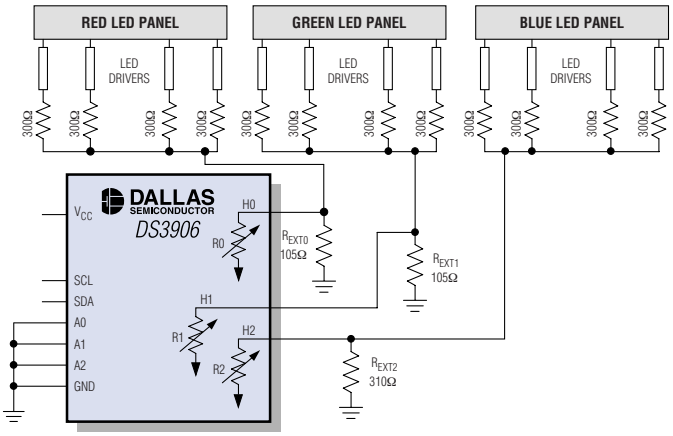
OHM AND SUB-OHM STEP SIZES FOR PARALLEL RESISTORS

10-µSOP 5mm x 3mm

(Resistors 0 and 1 with and without external resistor)

- Three 64-Step, Nonvolatile Variable Resistors plus High-Z Control
- 16 Bytes of User EEPROM
- I²C‡ Serial Interface
- Up to Eight Devices on a Common Bus
- Small, 10-Pin µSOP
- +2.7V to +5.5V Operation

DS3906 BIASING LED DRIVERS IN LED PANEL



Part	No. of Variable Resistors	No. of Steps	$Reff_{0,1}$* Range (Ω)	$Reff_{0,1}$* Resolution (Ω)	$Reff_2$** Range (Ω)	$Reff_2$** Resolution (Ω)	User EEPROM (Bytes)	Package
DS3906U	3	64	66 to 101	0.5	187 to 255	1.0	16	10-µSOP

‡Purchase of I²C components from Maxim Integrated Products, Inc., or one of its sublicensed Associated Companies, conveys a license under the Philips I²C Patent Rights to use these components in an I²C system, provided that the system conforms to the I²C Standard Specification defined by Philips.
*$Reff_{0,1}$ equals internal resistor $R_{0,1}$ in parallel with external $R_{EXT0,1}$ resistor. $Reff_{0,1}$ values assume $R_{EXT0,1}$ = 105Ω.
**$Reff_2$ equals internal resistor R_2 in parallel with external R_{EXT2} resistor. $Reff_2$ value assumes R_{EXT2} = 310Ω.

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