16-channel, 12-bit PWM Fm+ I2C-bus LED controller

Manufacturers	NXP Semiconductor
Package/Case	
Product Type	Optoelectronics
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for PCA9685PW or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

PCA9685PW is a 16-channel, 12-bit PWM (Pulse Width Modulation) controller IC (Integrated Circuit) that is commonly used in controlling LEDs, servos, and other devices that require PWM signals.

Features

16 independent PWM channels

12-bit resolution (4096 steps) for each channel

Adjustable frequency up to 1.6 kHz

Internal oscillator

External power supply voltage range of 2.3V to 5.5V

I2C communication interface

Output enable/disable control for each channel

Output polarity inversion for each channel

Application

LED control in lighting systems and displays

Servo motor control in robotics and automation

Motor speed control in drones and RC (Radio Control) vehicles

Sound generation in musical instruments and toys

Power management in battery-operated devices

NXP SEMICONDUCTORS
Country of Origin Philippines

(33T)PUID:03nNOP829GRE000

(32T)ORIG 0770
(31T)PMC T-u-D
(31P)MSL/PBT 1/240
MSL/PBT 1/260

(1T)LOTCTM299
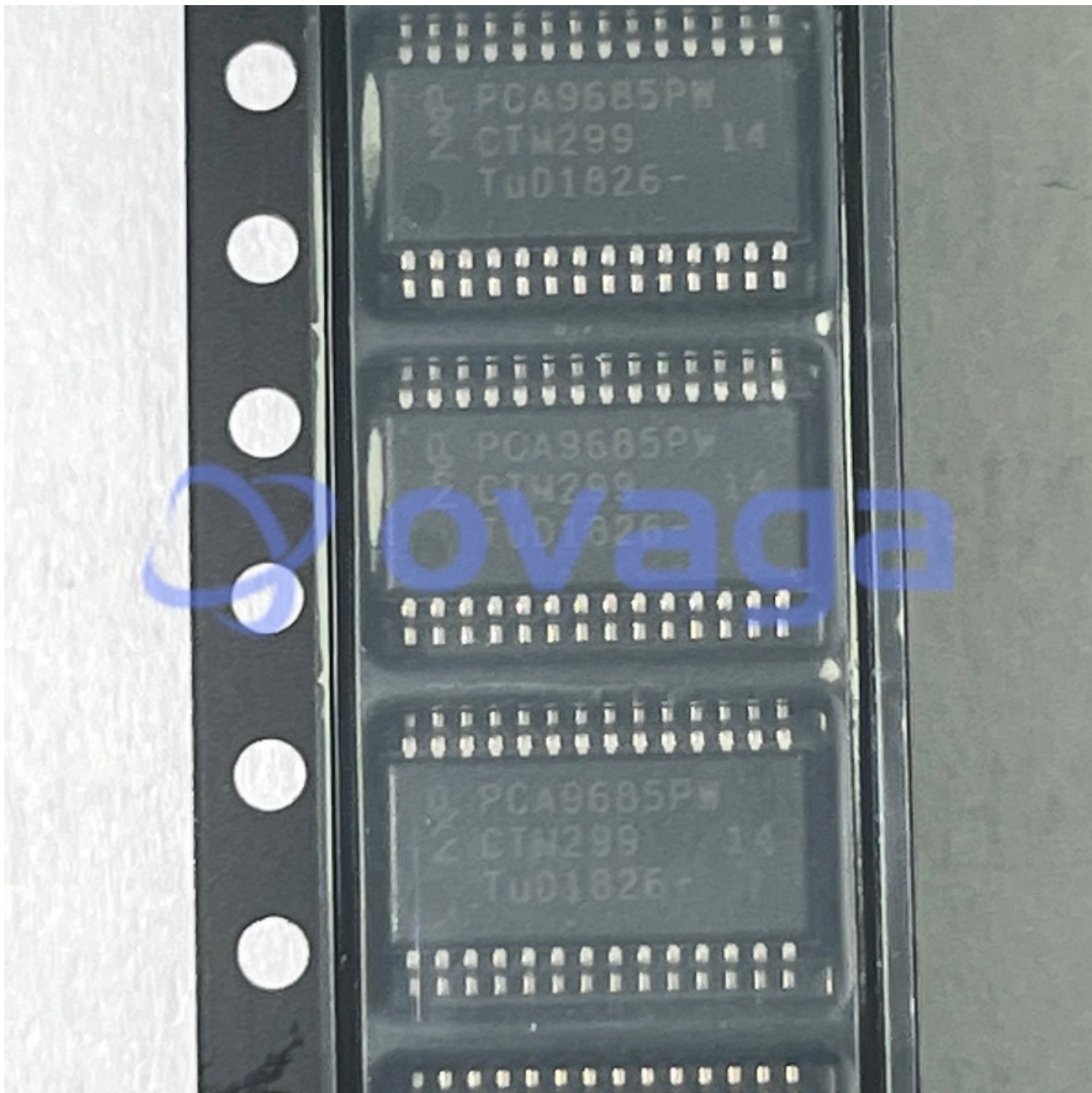
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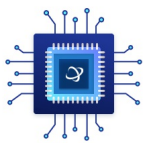
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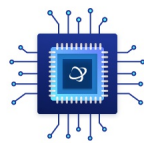(1P)CODENO9352 851 29118

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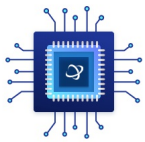
EU/CN RoHS COMPLIANT

Pb

Related Products

PCA9632DP1

NXP Semiconductor

PCA9632DP2

NXP Semiconductor
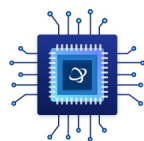
PCA9685BS

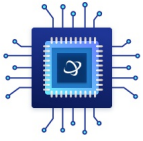NXP Semiconductor

PCA9624PW

NXP Semiconductor

TSSOP24

PCA9530DP

NXP Semiconductor

TSSOP-8

PCA9622DR

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PCA9634D

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PCA9632TK

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SSOP-28

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