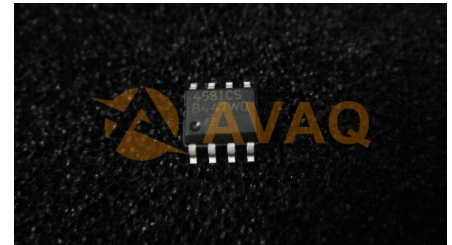


Synchronous Separator 8-Pin SOIC



Images are for reference only

[Inquiry](#)

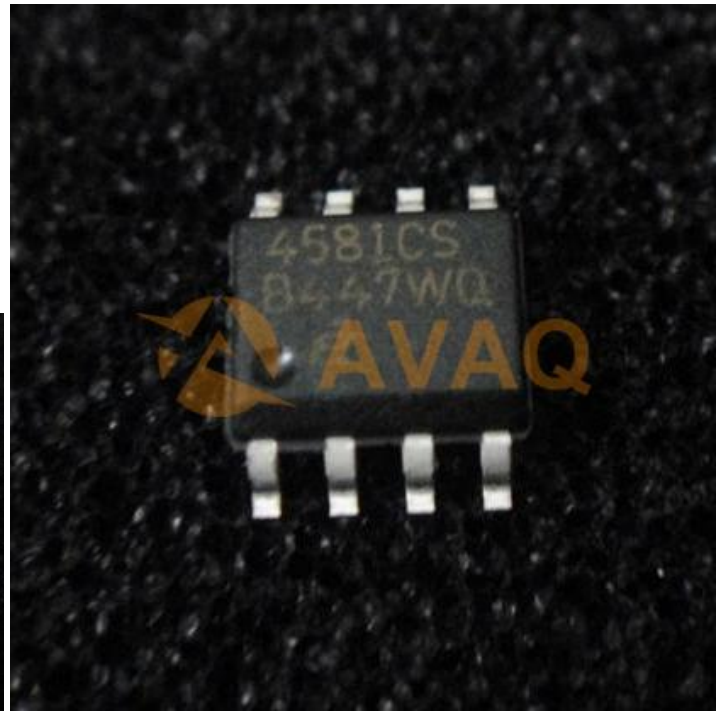
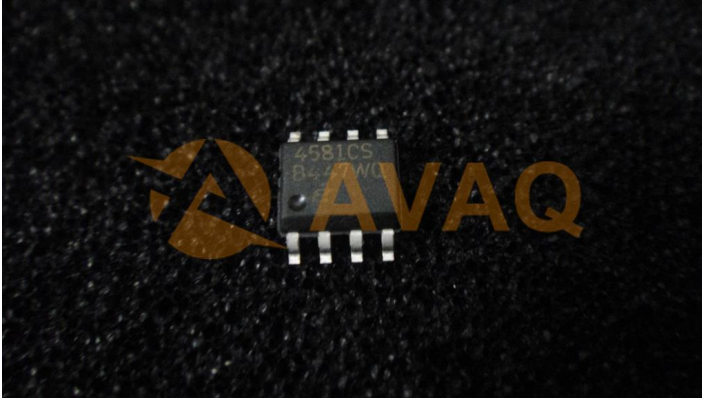
Manufacturer:	Renesas Technology Corp
Package/Case:	SOP-8
Product Type:	Discrete Semiconductor Modules
Lifecycle:	Obsolete

General Description

The EL4581 extracts timing information from standard negative going video sync found in NTSC, PAL and SECAM broadcast systems. It can also be used in non standard formats and with computer graphics systems at higher scan rates, by adjusting a single external resistor. When the input does not have correct serration pulses in the vertical interval, a default vertical output is produced. Outputs are composite sync, vertical sync, burst/back porch output, and odd/even output. The later operates only in interlaced scan formats. The EL4581 provides a reliable method of determining correct sync slide level by setting it to the mid-point between sync tip and blanking level at the back porch. This 50% level is determined by two internal self timing sample and hold circuits that track sync tip and back porch levels. This also provides a degree of hum and noise rejection to the input signal, and compensates for varying input levels of 0.5VP-P to 2.0VP-P. A built in linear phase, third order, low pass filter attenuates the chroma signal in color systems to prevent incorrectly set color burst from disturbing the 50% sync slide. This device may be used to replace the industry standard LM1881, offering improved performance and reduced power consumption. The EL4581 video sync separator is manufactured using Elantec's high performance analog CMOS process.

Key Features

- NTSC, PAL and SECAM sync separation
- Single supply, +5V
- Precision 50% slicing, internal caps
- Built-in color burst filter
- Decodes non-standard verticals
- Pin compatible with LM1881
- Low power
- Typically 1.5mA supply current
- Resistor programmable scan rate
- Few external components
- Available in 8 Ld PDIP and SOIC packages
- Pb-free available (RoHS compliant)



Recommended For You

EL4511CUZ

Renesas Technology Corp

SSOP24

EL4511CUZ-T7

Renesas Technology Corp

QSOP-24

EL4511CUZ-T13

Renesas Technology Corp

QSOP-24

EL4511CU

Renesas Technology Corp

SSOP

EL4511CU-T7

Renesas Technology Corp

SSOP

EL4511CUZ-T7A

Renesas Technology Corp

QSOP-24

HSP48410JC-33

Renesas Technology Corp

PLCC84

HSP48908JC-32

Renesas Technology Corp

PLCC

TW8834-TA2-CR

Renesas Technology Corp

QFP100

VHD1900EVG

Renesas Technology Corp

QFP

TW2837-PB1-GE

Renesas Technology Corp

QFP208

TW6869-TA1-CRH

Renesas Technology Corp

TQFP144

TW8844-LB1-CE

Renesas Technology Corp

LQFP-156

TW2871-BB1-CR

Renesas Technology Corp

BGA

TW8824-TA1-CR

Renesas Technology Corp

QFP