MEETING YOUR NEEDS
TOKO, Inc.

Product Information

Dual Video Line Driver IC
TK15420/1D/M

DESCRIPTION

The TK15420/1D/M are a dual 75Ω video line driver IC. The voltage gain can be selected from adjustable type and the fixed type for their use.
These are the direct replacement of Motorola video line driver IC as shown below.

TOKO	TK15420D	TK15420M	TK15421M	TK15421D
Motorola	MC14577F	MC14577P	MC14576F	MC14576P

FEATURES

- Adjustable Voltage Gain; TK15420D/M
- Fixed Voltage Gain (6dB);: TK15421D/M

APPLICATIONS

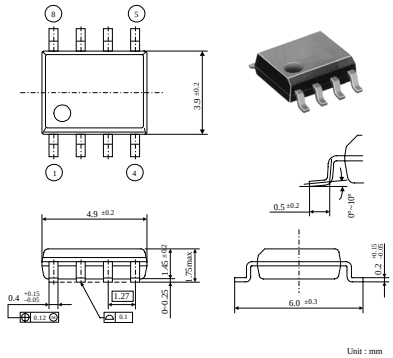
- The Video Systems
  DSC(Digital Still Camera),
  CCD Observation Camera, DVD Player/Rewriter
  TV Monitor, LCD Projector, Video Board,
  Video Recorder/Player/Camcorder,
  Portable Video Equipment etc.

ELECTRICAL CHARACTERISTICS

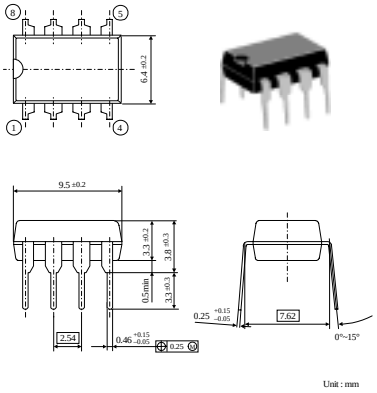
Parameter	Symbol	Value(TYP)		Unit
		15420	15421	
Operating Voltage Range	V_{OP}	4.0~12.0		V
Operating Temp. Range	T_{OP}	-25~+85		°C
Input Frequency	f_{MAX}	~20		MHz
Supply Current	I_{CC}	16.9	18.1	mA
Voltage Gain	G_V	5.9		dB
Frequency Response	fr	-0.5		dB
Maximum Output Voltage Swing	V_{OPP}	5.7		Vp-p
Differential Gain	DG	-3.0~+3.0		%
Differential Phase	DP	-3.0~+3.0		deg
Cross Talk	CT	63.4	76.3	dB

PACKAGE OUTLINE

■ SOP-8(TK15420/1M)

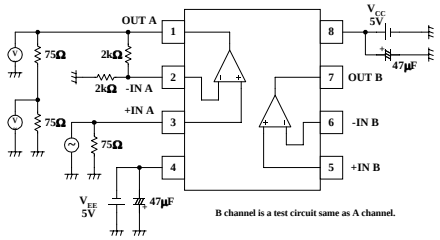


■ DIP-8(TK15420/1D)

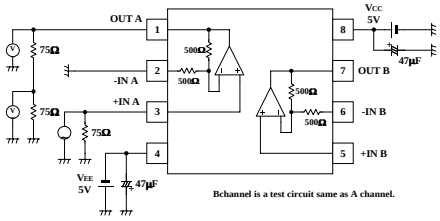


BLOCK DIAGRAM

■ TK15420D/M



■ TK15421D/M



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