



For Large Screen Digital TVs HDMI Buffer IC



HDMI ver.1.3a

1 to 1 HDMI™ BUFFER

HIGH-DEFINITION MULTIMEDIA INTERFACE

**Input waveform attenuation/
degradation in cable**

INPUT
HDMI

HDMI ver.1.3a 対応
Compatible with 20m cables
10kV ESD

BU16014
071 220

Rx Amp with EQ

DDC L/S

LOGIC

Tx Driver

DDC OUT

HDMI™ BUFFER
BU16014KV

Output waveform restored via equalizer

OUTPUT
HDMI

3 to 1 HDMI Switch IC
BU16008 KV

INPUT HDMI

INPUT HDMI

INPUT HDMI

2.25Gbps

Compatible with **20m** cable

Bidirectional DDC line buffer amp built in

10kV ESD (HBM)

1080p compliant

Compatible with **RGB 12bit** color depth

Overview

ROHM has recently developed the BU16014KV high performance buffer amp IC compatible with the newest HDMI ver1.3a standard for digital TVs and multimedia monitors. Features include high-speed differential driver and DDC buffer for display ID signals, making highly reliable digital communication possible. In addition, unique RF circuit technology and optimized pattern layout enable 2.25Gbps throughput capability with stable digital image and sound transmission.

Applications

Digital TVs, multimedia monitors, and the like



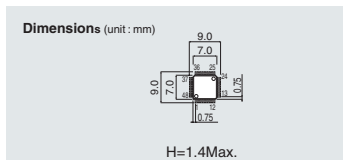
Features

- 1080p Full HD and 12bit color depth RGB compatibility
- Supports HDMI ver.1.3a and 2.25Gbps transmission rate
- Built-in equalizer enables long cables to be used
- DDC buffer built in for stable HDCP signals
- 10kV+ ESD protection (HBM)

Package

Easy-to-mount

VQFP48 package



Excellence in Electronics

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