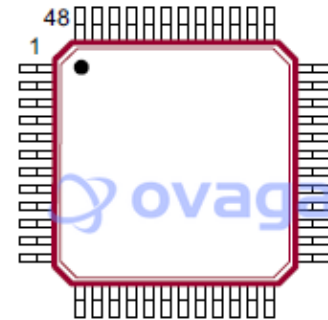


IC ULTRASOUND DRIVER 48LQFP

| | |
|---------------|---|
| Manufacturers | Microchip Technology, Inc |
| Package/Case | LQFP-48 |
| Product Type | Power Management ICs |
| RoHS | |
| Lifecycle | |



**48-Lead LQFP (FG)
(top view)**

Images are for reference only

Please submit RFQ for MD1712FG-G or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MD1712 is a two-channel, five-level, high voltage and high speed transmitter driver IC. It is designed for medical ultrasound imaging applications, but can also be used for metal flaw detection, Non-Destructive Testing (NDT), and for driving piezoelectric transducers. The MD1712 is a two-channel logic controller circuit with low impedance MOSFET gate drivers. There are two sets of control logic inputs, one for channel A and one for channel B. Each channel consists of three pairs of MOSFET gate drivers. These drivers are designed to match the drive requirements of TC6320. The MD1712 drives six TC6320s. Each pair consists of an N-channel and a P-channel MOSFET. They are designed to have the same impedance and can provide peak currents of over 2.0amps.

Features

Drives two ultrasound transducer channels

Generates five-level waveform

Drives 12 high voltage MOSFETs

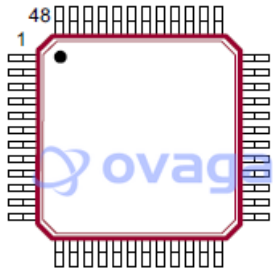
Up to 20MHz output frequency

12V/ns slew rate

Second harmonic is less than -40dB

Two separate gate drive voltages

1.8 to 3.3V CMOS logic interface



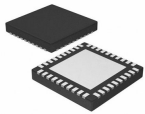
48-Lead LQFP (FG)
(top view)

Related Products



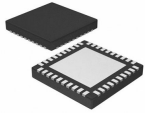
[MD1810K6-G](#)

Microchip Technology, Inc
QFN-16



[MD1716K6-G](#)

Microchip Technology, Inc
VQFN-40



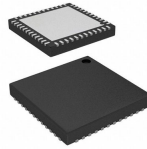
[MD1715K6-G](#)

Microchip Technology, Inc
VQFN-40



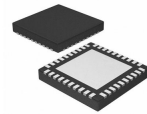
[MD1813K6-G](#)

Microchip Technology, Inc
QFN-16



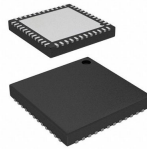
[MD1711K6-G-M933](#)

Microchip Technology, Inc
VQFN-48



[MD1715K6-G-M935](#)

Microchip Technology, Inc
VQFN-40



[MD1712K6-G](#)

Microchip Technology, Inc
VQFN-48



[MD1812K6-G](#)

Microchip Technology, Inc
QFN-16