

PDM Digital Output Multi-Mode Microphones from TDK InvenSense

Description







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SmartSound™

Analog & Digital MEM8 Microphones

T5837 and T5838 Bottom Ported PDM Digital Output Multi-Mode Microphone

TDK InvenSense introduces the **T5837** (part number MMICT5837-00-012) and the **T5838** (part number MMICT5838-00-012) BottomPorted PDM Digital Output Multi-Mode Microphone. The T5837has multipulation of operation: High Quality, Low-Power(AlwaysOn), Ultrasonic and Sleep modes. The T5837 has high operational modes. It has 133 dB SPL AOP in HighQuality Mode and 117 dB SPL AOP in Low-Power



SPEC	HIGH QUALITY MODE	LOW-POWER MODE	ULTRASONIC MODE
Sensitivity	-37 dB FS ±1 dB	-21 dB FS ±1 dB	-37 dB FS ±1 dB
SNR	68 dBA	65.5 dBA	68dBA
Current	310 μΑ	120 μΑ	500 μΑ
AOP	133 dB SPL	117 dB SPL	133 dB SPL
Clock	2.0 MHz to 3.7 MHz	400 kHz to 800 kHz	4.2 MHz to 4.8 MHz

T5838 Bottom Port PDM Digital Output Multi-Mode Microphone

The <u>T5838</u> has multiple modes of operation: High Quality, Low-Power (AlwaysOn), Ultrasonic, and S along with new AlwaysOn modes: Acoustic Activity Detect (AAD) Analog and Digital. The T5838 has SNR in all operational modes. It has 133 dB SPL AOP in High Quality Mode and 119 dB SPL AOP in Power mode.



SPEC	HIGH QUALITY MODE	LOW-POWER MODE	ULTRASONIC MODE
Sensitivity	-41 dB FS ±1 dB	-26 dB FS ±1 dB	-41 dB FS ±1 dB
SNR	68 dBA	65 dBA	68dBA
Current	310 μΑ	120 μΑ	500 μA
AOP	133 dB SPL	119 dB SPL	133 dB SPL
Clock	2.0 MHz to 3.7 MHz	400 kHz to 800 kHz	4.2 MHz to 4.8 MHz

Flex Evaluation Boards

Both boards have flex evaluation boards making for easy access to pin out. The part numbe EV_T5837-FX2 and EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition, TDK InvenSense has also manufactured a EV_T5838-FX2. In addition has also manufactured a EV_T5838-FX2. In addition has also manufactured a EV_T5838-FX2. In addition has also manufactured a <a href



About TDK InvenSense

InvenSense, Inc, a TDK Group Company is part of the Sensor System Business Company within TDK and is the industry leader in MEMS Motion, Audio, and Pressure Solutions for the consumer, industrial, automotive, and IoT market segments. TDK provides a very robust portfolio of MEMS 3/6/7/9 axis motion sensors, accompanied by the highest performing MEMS audio microphones, and pressure sensors. TDK continues to push the boundaries of performance and quality; setting new standards of innovation across multiple industries.

About Component Distributors, Inc. (CDI)

Component Distributors, Inc. (CDI) is a value-added distributor of high-performance LED, Power, RF & Microwave, Wireless and Sensor component technologies. CDI distributes globally and provides local application support and customer service across the Americas.

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