

TAS5825M Q&A

Control interface:	I2C	I²C
Support debugging interface, JTAG:		Can't support
Power supply range:		4.5V-26.4V
Power consumption, IQ:		DVDD: 0.82mA (Deep Sleep Mode); 14.8mA (Play Mode) PVDD: 12.1uA (Deep Sleep Mode); 20.5mA (PVDD=13.5V, LC filter=22uH+0.68uF, Fsw=384kHz, 1SPW mode)
External components PCB area (Device+ External Components):		3cm × 4cm (with LC filter)
Package:		QFN32
Package Size:		5mm×5mm
Digital interface:		I²S (TDM, I²S, LJ, RJ)
IO voltage of the digital interface:		1.8V or 3.3V
SPK temperature protection:		Can't support
Excursion protection:		Support with Feedforward Smart Amp Algorithm, With I²C hardware control
F0 tracker:		Can't support
Anti-Clipping:		Can't support
Loadness(TI do not need to apply)		N/A
Noise Floor(A WTD):		<40uVrms
Output power on 8ohms load, 1% THD+N:		30W, PVDD=24V
Efficiency (2W/8ohms, 6V supply, 1kHz):		2×2W into 8Ω, PVDD=7.4V, Efficiency>91%
Efficiency (1W/8ohms, 6V supply, 1kHz):		2×1W into 8Ω, PVDD=7.4V, Efficiency>89%
Efficiency by playing 'nothing to lose' (1W/8ohms, 6V supply, 1kHz): (TI do not need to apply)		2×1W into 8Ω, PVDD=7.4V, Efficiency>89%
Sample rate support:	48K/96K	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz
Other requirement: No DSP		DSP support with I²C hardware control
ESD (V) HBM		2000V
latch -up (mA)		+/-100mA
Antiflaming requirement (if contain any combustible material, like the plastic): For example, oxygen index=28		N/A (Need check later)
MSL		Level-2-260C-1 YEAR
ROHS		ROHS
Leaded free:		YES
Other Environmental Requirement:		N/A
Working Temperature Range	-40°C to +85°C	-25°C to +85°C
Storage Temperature Range	-55°C to +150°C	-40°C to +125°C