

SM5840CP

Digital Oversampling Filter

PD-41, PD-9700● **Pin Assignment**

(TOP VIEW)

$\overline{OW16}$	1	18	DIN
XTI	2	17	BCKI
XTO	3	16	LRCI
CKO	4	15	BCKO
V _{SS}	5	14	VDD
$\overline{OW20}$	6	13	WCKO
DEEM	7	12	DOL
MUTE	8	11	DOR
\overline{RST}	9	10	DG

● **Pin Function**

No.	Pin name	I/O	Function
1	$\overline{OW16}$	I	Output bit rate select input 1. (*1)
2	XTI	I	Oscillator input.
3	XTO	O	Oscillator output.
4	CKO	O	Clock output. (Frequency is the same as XTI.)
5	V _{SS}	—	GND terminal.
6	$\overline{OW20}$	I	Output bit rate select input 2.(*1) Refer to $\overline{OW16}$.
7	DEEM	I	De-emphasis signal input. L: De-emphasis OFF, H: De-emphasis ON
8	MUTE	I	Mute signal input. L: Soft mute OFF, H: Soft mute ON
9	\overline{RST}	I	System reset signal input.(Initialize)
10	DG	O	De-glitch output.
11	DOR	O	Data output for R ch.
12	DOL	O	Data output for L ch.
13	WCKO	O	Word clock output.
14	V _{DD}	—	Power supply input(+5V)
15	BCKO	O	Bit clock output.
16	LRCI	I	Sampling rate(fs) clock input for input data.
17	BCKI	I	Bit clock input
18	DIN	I	Data input

*1: Selection of output bit rate.

Settings		$\overline{OW20}$	
		H	L
$\overline{OW16}$	H	18bit output Noise shaper ON	20bit output Noise shaper ON
	L	16 bit output Noise shaper ON	16bit output Noise shaper OFF (test mode)