

LCD DRIVER/INTERFACE IC FOR TFT LCD



☆ New product
★ Under development

REGULATOR IC FOR MULTI-CHIP STN-LCD DRIVERS

Model No.	Function	Output voltage (V) MAX.	Supply voltage (V)	Package	Remarks
★ LR3694	Regulator for LH155EF, LH1537F and LH1583F	36	2.4 to 3.3	48QFP*	6 times bipolar voltage boost circuit

* 0.5 mm pin-pitch

TFT-LCD DRIVERS

Model No.	Panel	Drive function	Gray-scale	No. of LCD drive output	Display voltage (V) MAX.	Maximum clock frequency (Hz)	Supply voltage (V)	Extra function	Package
LH1689F	OA	Source driver	64 (6-bit)	240	5.5	55 M	3.0 to 5.5	Built-in reference voltage generation circuit, R-DAC system	SST
LH1685F	OA	Source driver	64 (6-bit)	300/309	5.5	55 M	3.0 to 5.5	Built-in reference voltage generation circuit, R-DAC system	SST
★ LH168AF	OA	Source driver	64 (6-bit)	384	5.5	55 M	2.7 to 3.6	2-port data input, Built-in reference voltage generation circuit, R-DAC system	SST
☆ LH168BF1/GF1	OA	Source driver	64 (6-bit)	312/324	13	55 M	2.7 to 3.6	Built-in reference voltage generation circuit, Dot-inversion drive	SST
☆ LH168DF1/JF1	OA	Source driver	64 (6-bit)	384	13	65 M	2.7 to 3.6	Built-in reference voltage generation circuit, Dot-inversion drive	SST
★ LH168EF	OA	Source driver	256 (8-bit)	384	13	65 M	2.7 to 3.6	Built-in reference voltage generation circuit, Dot-inversion drive	SST
LH1684F	AV	Source driver	Analog	240	5.5	10 M	4.5 to 5.5	Three-point simultaneous or sequential sampling selectable (Sampling frequency: 20 MHz)	SST
★ LH1687F	AV	Source driver	Analog	240	5.5	12.5 M	3.0 to 5.5	Three-point simultaneous or sequential sampling selectable (Sampling frequency: 25 MHz), power save function	SST
LH1691F	OA/AV	Gate driver	-	240	33	100 k	3.0 to 5.5	1-pulse (normal) or 2-pulse (normal/precharge) scanning selectable, both positive/negative power supply capability	SST
LH1692F	OA/AV	Gate driver	-	300	42	100 k	3.0 to 5.5	1-pulse (normal) or 2-pulse (normal/precharge) scanning selectable, both positive/negative power supply capability	SST
☆ LH1694F	OA/AV	Gate driver	-	256	42	100 k	2.7 to 3.6	1-pulse (normal) or 2-pulse (normal/precharge) scanning selectable, Both positive/negative power supply capability, enable chain cascade connection	SST

SST: Super Slim TCP

INTERFACE IC FOR TFT LCDs

Model No.	Input signal				Color	LCD panel				
	Composite video	Y/C	Y/color difference	Analog RGB	Decode	± power source	+ power source	Low voltage source	Supply voltage	Package
IR3P89				●	-	●			5/-7	36QFP
IR3P90Y/Y1	●			●	NTSC	●			4.5/-7.5	48QFP/48QFP*
IR3Y05Y	●			●	NTSC		●		4.5/12	48QFP
IR3Y08				●	-	●			5/-8	48QFP
IR3Y12B		●		●	NTSC	●	●		4.5/12 or 4.5/-7.5	48QFP
IR3Y18A	●	●			NTSC/PAL	●	●		4.5/12 or 4.5/-7.5	48QFP*
IR3Y21	●			●	PAL	●			4.5/-7.5	48QFP*
IR3Y26A/A1				●	-			●	5/7.5	48QFP/48QFP*
IR3Y29BM	●	●		●	NTSC/PAL			●	5/7.5	48QFP*
IR3Y31M	●	●		●	NTSC/PAL	●	●		4.5/12 or 4.5/-7.5	48QFP*
IR3Y34M			●	●	-		●		3/12	48QFP*
IR3Y35M			●	●	-		●		3/12	48QFP*
IR3Y37M			●	●	-			●	3/6.5	48QFP*

* 0.5 mm pin-pitch