

2.1 Passives

Besides the four major components, the OSD335x also integrates over 140 capacitors, resistors, inductors, and ferrite beads (Passives). Table 2.1 lists the location, value, quantity of the input, and output of these passives to externally accessible signals on the OSD335x.

Table 2.1. OSD335x Passives

From	To	Device	Pin	Type	Value	Qty
CAP_VBB_MPU	VSS	AM335x	CAP_VBB_MPU	C	1uF	1
CAP_VDD_RTC	VSS	AM335x	CAP_VDD_RTC	C	1uF	1
CAP_VDD_SRAM_CORE	VSS	AM335x	CAP_VDD_SRAM_CORE	C	1uF	1
CAP_VDD_SRAM_MPU	VSS	AM335x	CAP_VDD_SRAM_MPU	C	1uF	1
SYS_RTC_1P8V	VSS	AM335x	VDDS	C	10uF	1
SYS_RTC_1P8V	VSS	AM335x	VDDS	C	0.01uF	4
SYS_RTC_1P8V	VSS	AM335x	VDDS_RTC	C	0.01uF	1
SYS_VDD_1P8V	VSS	AM335x	VDDA1P8V_USB0	C	0.01uF	1
SYS_VDD_1P8V	VSS	AM335x	VDDA1P8V_USB1	C	0.01uF	1
SYS_VDD_1P8V	VSS	AM335x	VDDS_SRAM_CORE_BG	C	10uF	1
SYS_VDD_1P8V	VSS	AM335x	VDDS_SRAM_CORE_BG	C	0.01uF	1
SYS_VDD_1P8V	VSS	AM335x	VDDS_SRAM_MPU_BB	C	10uF	1
SYS_VDD_1P8V	VSS	AM335x	VDDS_SRAM_MPU_BB	C	0.01uF	1
VDDSHV_3P3V	VSS	AM335x	VDDA3P3V_USB0	C	0.01uF	1
VDDSHV_3P3V	VSS	AM335x	VDDA3P3V_USB1	C	0.01uF	1
VDDSHV_3P3V	VSS	AM335x	VDDSHV1-VDDSHV6	C	10uF	6
VDDSHV_3P3V	VSS	AM335x	VDDSHV1-VDDSHV6	C	0.01uF	16
VDD_CORE	VSS	AM335x	VDD_CORE	C	10uF	1
VDD_CORE	VSS	AM335x	VDD_CORE	C	0.01uF	8
VDD_MPU	VSS	AM335x	VDD_MPU	C	10uF	1
VDD_MPU	VSS	AM335x	VDD_MPU	C	0.01uF	5
VDDA_ADC	VSS	AM335x	VDDA_ADC	C	0.01uF	1
VDDS_DDR	VSS	AM335x	VDDS_DDR	C	10uF	2
VDDS_DDR	VSS	AM335x	VDDS_DDR	C	0.047uF	22
VDDS_PLL	VSS	AM335x	VDDS_OSC	C	0.01uF	1
VDDS_PLL	VSS	AM335x	VDDS_PLL_CORE_LCD	C	0.01uF	1
VDDS_PLL	VSS	AM335x	VDDS_PLL_DDR	C	0.01uF	1
VDDS_PLL	VSS	AM335x	VDDS_PLL_MPU	C	0.01uF	1
SYS_VDD_1P8V	VDDA_ADC	AM335x	VDDA_ADC	FB	150 Ohm	1
SYS_VDD_1P8V	VDDS_PLL	AM335x	VDDS_PLL	FB	150 Ohm	1
VSS	VSSA_ADC	AM335x	VSSA_ADC	FB	150 Ohm	1
VDDS_DDR	VSS	OSD335x	DDR3 Memory Device	C	10uF	2
VDDS_DDR	VSS	OSD335x	DDR3 Memory Device	C	0.1uF	12
VDDSHV_3P3V	VSS	TL5209	OUT	C	2.2uF	1
SYS_VOUT	VSS	TL5209	IN	C	2.2uF	1
SYS_RTC_1P8V	VSS	TPS65217C	VLDO1	C	2.2uF	1
SYS_VDD_1P8V	VSS	TPS65217C	LS1_OUT	C	10uF	1
SYS_VDD2_3P3V	VSS	TPS65217C	VLDO2	C	2.2uF	1
VDDSHV_3P3V	VSS	TPS65217C	LS2_OUT	C	10uF	1
SYS_VOUT	VSS	TPS65217C	SYS	C	10uF	2
SYS_VOUT	VSS	TPS65217C	VIN_DCDC1	C	10uF	1
SYS_VOUT	VSS	TPS65217C	VIN_DCDC2	C	10uF	1
SYS_VOUT	VSS	TPS65217C	VIN_DCDC3	C	10uF	1
SYS_VOUT	VSS	TPS65217C	VIN_LDO	C	10uF	1
VDD_CORE	VSS	TPS65217C	VDCDC3	C	10uF	1
VDD_MPU	VSS	TPS65217C	VDCDC2	C	10uF	1
VDDS_DDR	VSS	TPS65217C	VDCDC1	C	10uF	1
VIN_5V	VSS	TPS65217C	AC	C	10uF	1
VIN_BAT	VSS	TPS65217C	BAT	C	10uF	1
VIN_USB	VSS	TPS65217C	USB	C	10uF	1

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VDD_CORE	L3	TPS65217C	L3	L	2.2uH	1
VDD_MPU	L2	TPS65217C	L2	L	2.2uH	1
VDDS_DDR	L1	TPS65217C	L1	L	2.2uH	1
SYS_RTC_1P8V	PMIC_OUT_PWR_EN	TPS65217C	PWR_EN pull-up	R	10K Ohm	1
SYS_RTC_1P8V	PMIC_OUT_NWAKEUP	TPS65217C	WAKEUPN pull-up	R	10K Ohm	1
VDDSHV_3P3V	PMIC_OUT_NINT	TPS65217C	INTN pull-up	R	10K Ohm	1
VDDSHV_3P3V	PMIC_IN_I2C_SCL	TPS65217C	SCL pull-up	R	4.7K Ohm	1
VDDSHV_3P3V	PMIC_IN_I2C_SDA	TPS65217C	SDA pull-up	R	4.7K Ohm	1