

# Samsung – ERP Cross Reference



## COB LEDs

Current (mA)		200	250	280	285	300	350	380	400	450	460	500	550	620	700	800	850	900	1000	1050	1200	1400	1600
LC006B		✓	✓	✓	✓	✓																	
LC008B			✓	✓	✓	✓	✓	✓	✓	✓	✓												
LC013B									✓	✓	✓	✓	✓	✓	✓								
LC019B											✓	✓	✓	✓	✓	✓	✓	✓					
LC026B												✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
LC033B													✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LC040B																				✓	✓	✓	✓

# Samsung – ERP Cross Reference

Samsung COB LED SPECIFICATION					ERP LED DRIVER SPECIFICATION										
Samsung COB Product Name	Driver Output Current (mA)	Min Forward Voltage (VDC)	Typical Forward Voltage (VDC)	Max Forward Voltage (VDC)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
<b>LC006B: 180mA (typical current), 320mA (max current)</b>															
LC006B@200mA	200	32.5	35.5	38.5	EBR010U-0200-42 EBR010E-0200-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42		
LC006B@250mA	250	32.5	35.5	38.5	EBR010U-0250-42 EBR010E-0250-42 ESS010W-0250-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42		
LC006B@280mA	280	32.5	35.5	38.5	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42		
LC006B@285mA	285	32.5	35.5	38.5	EBR015U-0285-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	285	12.0	30	37.8	42		
LC006B@300mA	300	32.5	35.5	38.5	EBR015U-0300-42 EBR015E-0300-42 ESS015W-0300-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42		
<b>LC008B: 240mA (typical current), 430mA (max current)</b>															
LC008B@250mA	250	33.5	36.5	39.5	EBR010U-0250-42 EBR010E-0250-42 ESS010W-0250-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42		
LC008B@280mA	280	33.5	36.5	39.5	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42		
LC008B@285mA	285	33.5	36.5	39.5	EBR015U-0285-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	285	12.0	30	37.8	42		
LC008B@300mA	300	33.5	36.5	39.5	EBR015U-0300-42 EBR015E-0300-42 ESS015W-0300-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42		
LC008B@350mA	350	33.5	36.5	39.5	EBR015U-0350-42 EBR015E-0350-42 ERPO20W-0350-42 ESM020W-0350-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42		
LC008B@380mA	380	33.5	36.5	39.5	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16.0	24	37	42		
LC008B@400mA	400	33.5	36.5	39.5	EBR020U-0400-42 EBR020E-0400-42 ESS020W-0400-42	120 Vac, 87% eff., Round Plastic Case 220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42		



LC006B



LC008B

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Samsung COB LED SPECIFICATION					ERP LED DRIVER SPECIFICATION										
Samsung COB Product Name	Driver Output Current (mA)	Min Forward Voltage (VDC)	Typical Forward Voltage (VDC)	Max Forward Voltage (VDC)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
<b>LC013B: 360mA (typical current), 660mA (max current)</b>															
LC013B@400mA	400	32.5	35.5	38.5	EBR020E-0400-42 ESS020W-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase Forward/Reverse Phase & 0-10V	1-100% 1-100%	400 400	16.8 16.8	30 24	37.8 37.8	42 42		
LC013B@450mA	450	32.5	35.5	38.5	ERPO20W-0450-42 ESS020W-0450-42	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100%	450 450	18.9 18.9	31.5 24	39 37.8	42 42		
LC013B@460mA	460	32.5	35.5	38.5	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42		
LC013B@500mA	500	32.5	35.5	38.5	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42		
					EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42		
					ESM030W-0500-42 ESS030W-0500-42	120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	1-100% 1-100%	500 500	21.0 21.0	24	37.8	42		
LC013B@550mA	550	32.5	35.5	38.5	ERPO30W-0550-42 ESM030W-0550-42 ESS030W-0550-42	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100% 1-100%	550 550 550	23.1 23.1 23.1	31.5 24 24	39 37.8 37.8	42 42 42		
LC013B@620mA	620	32.5	35.5	38.5	ESS030W-0620-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26.0	24	37.8	42		
<b>LC019B: 540mA (typical current), 980mA (max current)</b>															
LC019B@550mA	550	32.5	35.5	38.5	ERPO30W-0550-42 ESM030W-0550-42 ESS030W-0550-42	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100% 1-100%	550 550 550	23.1 23.1 23.1	31.5 24 24	39 37.8 37.8	42 42 42		
					ESS030W-0620-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26.0	24	37.8	42		
					ERPO30W-0700-38.5 ESM030W-0700-42 ESS030W-0700-39	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100% 1-100%	700 700 700	27.0 29.4 27.3	31.5 24 27	38.5 37.8 35.1	38.5 42 39		
LC019B@620mA	620	32.5	35.5	38.5	ERPO40W-0800-42 ESM040W-0800-42 ESP040W-0800-42	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100% 1-100%	800 800 800	33.6 33.6 33.6	31.5 24 24	39 37.8 37.8	42 42 42		
					ERPO40W-0850-42 ESM040W-0850-42 ESP040W-0850-42	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100% 1-100%	850 850 850	35.7 35.7 35.7	31.5 24 24	39 37.8 37.8	42 42 42		
					ERPO40W-0900-42 ESM040W-0900-42 ESP040W-0900-42	120-277 Vac, 90% eff., Rectangular Plastic Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100% 1-100%	900 900 900	37.8 37.8 37.8	31.5 24 24	39 37.8 37.8	42 42 42		



LC013B



LC019B

# Samsung – ERP Cross Reference

Samsung COB LED SPECIFICATION					ERP LED DRIVER SPECIFICATION										
Samsung COB Product Name	Driver Output Current (mA)	Min Forward Voltage (VDC)	Typical Forward Voltage (VDC)	Max Forward Voltage (VDC)	ERP LED Driver Part Numbers			Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	
<b>LC026B: 720mA (typical current), 1300mA (max current)</b>															
LC026B@800mA	800	32.5	35.5	38.5	ERPO40W-0800-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42		
					ESM040W-0800-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42		
					ESP040W-0800-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42		
LC026B@850mA	850	32.5	35.5	38.5	ERPO40W-0850-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42		
					ESM040W-0850-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42		
					ESP040W-0850-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42		
LC026B@900mA	900	32.5	35.5	38.5	ERPO40W-0900-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42		
					ESM040W-0900-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42		
					ESP040W-0900-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42		
LC026B@1000mA	1000	32.5	35.5	38.5	ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48.0	24	43.2	48		
LC026B@1050mA	1050	32.5	35.5	38.5	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42		
					ESM050W-1050-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42		
					ESP050W-1050-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42		
LC026B@1200mA	1200	32.5	35.5	38.5	ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42		
					ESM050W-1200-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42		
					ESP050W-1200-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42		

<b>LC033B: 900mA (typical current), 1620mA (max current)</b>															
LC033B@900mA	900	32.5	35.5	38.5	ERPO40W-0900-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42		
					ESM040W-0900-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42		
					ESP040W-0900-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42		
LC033B@1000mA	1000	32.5	35.5	38.5	ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48.0	24	43.2	48		
LC033B@1050mA	1050	32.5	35.5	38.5	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42		
					ESM050W-1050-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42		
					ESP050W-1050-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42		
LC033B@1200mA	1200	32.5	35.5	38.5	ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42		
LC033B@1400mA	1400	32.5	35.5	38.5	ERM060W-1400-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1400	58.8	32	37.8	42		
LC033B@1600mA	1600	32.5	35.5	38.5	EVM060W-1400-42-COB	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	30	37.8	42		
					ESP060W-1400-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	24	37.8	42		



LC033B



LC026B

# Samsung – ERP Cross Reference

Samsung COB LED SPECIFICATION					ERP LED DRIVER SPECIFICATION									
Samsung COB Product Name	Driver Output Current (mA)	Min Forward Voltage (VDC)	Typical Forward Voltage (VDC)	Max Forward Voltage (VDC)	ERP LED Driver Part Numbers			Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
<b>LC040B: 1080mA (typical current), 1620mA (max current)</b>														
LC040B@1200mA	1200	32.5	35.5	38.5	ERM050W-1200-42 ESM050W-1200-42 ESP050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100%	1200 1200	50.4 50.4	32 24	37.8 37.8	42 42	
LC040B@1400mA	1400	32.5	35.5	38.5	ERM060W-1400-42 EVM060W-1400-42-COB ESP060W-1400-42	120 & 277 Vac, 90% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Metal Case 120-277 Vac, 87% eff., Rectangular Plastic Case	0-10V Forward/Reverse Phase & 0-10V Forward/Reverse Phase & 0-10V	10-100% 1-100%	1400 1400	58.8 58.8	32 30	37.8 37.8	42 42	
LC040B@1600mA	1600	32.5	35.5	38.5	ERM060W-1600-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1600	67.2	32	37.8	42	



LC040B

# Samsung – ERP Cross Reference



## LED Modules

	Current (mA)														
	350	380	400	440	450	480	500	550	600	700	840	900	1000	1100	1150
LT-H284A													✓		
LT-H564A										✓		✓		✓	✓
LT-E284A															
LT-E564A										✓					
Finger xx64B														✓	
Finger xx30B															
Round-62B							✓								
Round-90B	✓				✓				✓			✓			
Round-130B	✓	✓	✓			✓			✓	✓	✓				
Round-090C	✓				✓										
Round-110C											✓				
Round-130C												✓			

# Samsung – ERP Cross Reference

Samsung LED Engine				ERP LED Drivers										
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
<b>LT-H284A : 700mA (nominal) 1200mA (max)</b>														
1000mA	10.5	11.6	12.9	ELP018E-1000-16	220/230/240 Vac, 80% eff., Rectangular Plastic Case			Forward/Reverse Phase	10-100%	1000	16	10	13	16

<b>LT-H564A : 700mA (nominal) 1200mA (max)</b>														
700mA	21.9	23.2	24.9	EBR020U-0700-30	120 Vac, 87% eff., Round Plastic Case			Forward/Reverse Phase	1-100%	700	21	20	27	30
				ESM030W-0700-32	120-277 Vac, 87% eff., Rectangular Metal Case			Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32
				ESS030W-0700-32	120-277 Vac, 87% eff., Rectangular Plastic Case			Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32
900mA	21.9	23.2	24.9	ERP030W-0900-27	120-277 Vac, 90% eff., Rectangular Plastic Case			0-10V	10-100%	900	24.3	20	25.1	27
				ESM030W-0900-26	120-277 Vac, 87% eff., Rectangular Metal Case			Forward/Reverse Phase & 0-10V	1-100%	900	23.4	19	24	26
				ESS030W-0900-27	120-277 Vac, 87% eff., Rectangular Plastic Case			Forward/Reverse Phase & 0-10V	1-100%	900	24.3	20	24.3	27
1100mA	21.9	23.2	24.9	ESS030W-1100-27	120-277 Vac, 87% eff., Rectangular Plastic Case			Forward/Reverse Phase & 0-10V	1-100%	1100	29.7	20	24.3	27
1150mA	21.9	23.2	24.9	ERP040W-1150-28	120-277 Vac, 90% eff., Rectangular Plastic Case			0-10V	10-100%	1150	32.2	21	26	28

<b>LT-E564A : 700mA (nominal) 750mA (max)</b>														
700mA	23	24.3	26	EBR020U-0700-30	120 Vac, 87% eff., Round Plastic Case			Forward/Reverse Phase	1-100%	700	21	20	27	30
				ERP030W-0700-32	120-277 Vac, 90% eff., Rectangular Plastic Case			0-10V	10-100%	700	22.4	22.5	29	32
				ESM030W-0700-32	120-277 Vac, 87% eff., Rectangular Metal Case			Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32
				ESS030W-0700-32	120-277 Vac, 87% eff., Rectangular Plastic Case			Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32



H Series

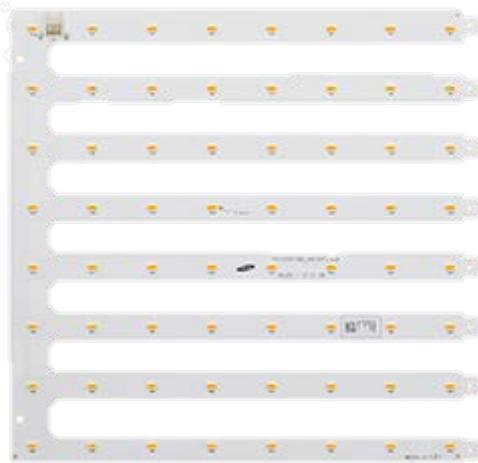


E Series



# Samsung – ERP Cross Reference

Samsung LED Engine				ERP LED Drivers										
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
<b>Finger xx64B : 700mA (nominal) 1600mA (max)</b>														
1000mA	10.5	11.6	12.5	ELP018E-1000-16	220/230/240 Vac, 80% eff., Rectangular Plastic Case			Forward/Reverse Phase	10-100%	1000	16	10	13	16
<b>Finger xx30B : 700mA (nominal) 900 mA (max)</b>														
	13.8	15.3	16.8											



Finger xx64B



Finger xx30B

# Samsung – ERP Cross Reference

Samsung LED Engine				ERP LED Drivers										
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
<b>Round-62B : 350mA (nominal) 600mA (max)</b>														
480mA	10.8	12	13.2	ELP009U-0480-13.5	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	480	6.48	10	11.8	13.5		
<b>Round-90B : 350mA (nominal) 600mA (max)</b>														
350mA	21.6	24	26.4	EPR015U-0350-32	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	11.2	21	28.8	32		
				ERPO20W-0350-28	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	9.8	21	26	28		
				ESS015W-0350-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	11.2	21	28.8	32		
440mA	21.6	24	26.4	ESM020W-0440-34	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	440	15	19	30.6	34		
500mA	21.6	24	26.4	EPR020U-0500-32	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	16	21	28.8	32		
				ESS020W-0500-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	16	21	28.8	32		
600mA	21.6	24	26.4	ESS020W-0600-27	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	600	16.2	20	24.3	27		
<b>Round-130B : 350mA (nominal) 600mA (max)</b>														
350mA	29.7	33	36.3	ESM020W-0350-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42		
				ESS015W-0350-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42		
380mA	29.7	33	36.3	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16	24	37	42		
400mA	29.7	33	36.3	ESS020W-0400-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	16.8	24	37.8	42		
450mA	29.7	33	36.3	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41		
				ESS020W-0450-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42		
500mA	29.7	33	36.3	EPR020U-0500-37	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	18.5	25	33.3	37		
				EPR020E-0500-37	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	18.5	25	33.3	37		
				ESM030W-0500-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42		
				ESS030W-0500-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42		
550mA	29.7	33	36.3	ESM030W-0550-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42		
				ESS030W-0550-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42		



Round-60B



Round-90B



Round-130B

# Samsung – ERP Cross Reference

Samsung LED Engine				ERP LED Drivers											
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	
<b>Round-090C : 350mA (nominal) 450mA (max)</b>															
350mA	22.8	24	27.1	EBR015U-0350-32	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	11.2	21	28.8	32			
				ERP020W-0350-28	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	9.8	21	26	28			
				ESS015W-0350-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	11.2	21	28.8	32			
440mA	22.8	24	27.1	ESM020W-0440-34	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	440	15	19	30.6	34			
<b>Round-110C : 700mA (nominal) 750mA (max)</b>															
700mA	23.3	25	27.7	EBR020U-0700-30	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	700	21	20	27	30			
				ERP030W-0700-32	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	22.4	22.5	29	32			
				ESM030W-0700-32	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32			
				ESS030W-0700-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32			
<b>Round-130C : 700mA (nominal) 750mA (max)</b>															
700mA	37.9	39.7	45	ELM040W-0700-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	700	33.6	24	43.2	48			
				ERP040W-0700-45.5	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	31.9	34	42.3	45.5			



Round-090C



Round-110C



Round-130C

# Samsung – ERP Cross Reference



SAMSUNG

## LED Light Engines

	Current (mA)						
	440	600	700	900	1400	1800	2100
M552A/M562A	✓						
2 in Parallel				✓			
3 in Parallel					✓		
4 in Parallel						✓	
M552B/M562B		✓					
2 in Parallel							
3 in Parallel						✓	
M552C/M562C			✓	✓			
2 in Parallel					✓	✓	
3 in Parallel		✓					✓
F552A/F562A				✓			

# Samsung – ERP Cross Reference

Samsung LED Engine				ERP LED Drivers											
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers				Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	Vout

**M552A/M562A : 450mA (nominal) 24.7 VF Nominal**

1 light engine	23	24.7	27	ELM030W-0440-34	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	440	15	22	30	34		
				ESM020W-0440-34	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	440	15	19	30.6	34		
2 in Parallel	23	24.7	27	ERP030W-0900-27	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	24.3	20	25.1	27		
				ESS030W-0900-27	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	24.3	20	24.3	27		
3 in Parallel	23	24.7	27	ELM050W-1400-32	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1400	44.8	21	28.8	32		
				ERM050W-1400-29	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1400	40.6	22	26.1	29		
				ESM050W-1400-34	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	47.6	23	30.6	34		
				ESP050W-1400-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	44.8	21	28.8	32		
4 in Parallel	23	24.7	27	ERM050W-1800-28	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1800	50.4	21	25.2	28		

**M552B/M562B : 600mA (nominal) 24.7 VF Nominal**

1 light engine	23	24.7	27	ESS020W-0600-27	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	600	16.2	20	24.3	27		
2 in Parallel	23	24.7	27											
3 in Parallel	23	24.7	27	ERM050W-1800-28	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1800	50.4	21	25.2	28		

**M552C/M562C : 700mA (nominal) 900mA (max for one) 24 VF Nominal**

1 light engine	23	24	27	EBR020U-0700-30	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	700	21	20	27	30		
				ELM030W-0700-36	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	700	25.2	22	32.4	36		
				ERP030W-0700-32	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	22.4	22.5	29	32		
				ESM030W-0700-32	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32		
				ESS030W-0700-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	22.4	21	28.8	32		
				ERPO30W-0900-27	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	24.3	20	25.1	27		
				ESS030W-0900-27	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	24.3	20	24.3	27		
2 in Parallel	23	24	27	ELM050W-1400-32	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1400	44.8	21	28.8	32		
				ESM050W-1400-34	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	47.6	23	30.6	34		
				ESP050W-1400-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	44.8	21	28.8	32		
				ERM050W-1800-28	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1800	50.4	21	25.2	28		
3 in Parallel	23	24	27	ERM060W-2100-28	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	2100	58.8	21	25.2	28		

**F552A/F562A : 1350mA (nominal) 24.7 VF Nominal**

1 light engine	23	24.7	27	ESM050W-1400-34	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	47.6	23	30.6	34		
				ESP050W-1400-32	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	44.8	21	28.8	32		

