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Magnetics for National Semiconductor LM5030



New RoHS part numbers are shown. Lead was removed from internal parts. The next to the last character is an **L** to indicate RoHS compliance. ([View old data sheet.](#))

- Specially developed for use with the **National Semiconductor LM5030** 100V Push-Pull Current Mode PWM Controllers
- Low profile, high efficiency **planar transformer: 33, 35 and 60 Watt versions**
- **Output choke** inductor with auxiliary winding: **33, 35 and 60 Watt versions**
- Magnetically shielded **input choke**
- **RoHS-compliant.** 260°C compatible.
Planar transformers - Tin over nickel over brass terminations
MSS6132 - Gold over nickel over phos bronze terminations
Output choke inductors - Tin-silver over tin over nickel over phos bronze terminations



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SPECIFICATIONS



[L versus Frequency](#)



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Planar Transformer

Part number ¹ <i>Click for samples</i>	Output power (W)	Input voltage range (V)	Output voltage (V)	Output current ² (A rms)	Primary inductance ³ min (mH)	Leakage inductance max (µH)	DCR max (Ohms)		Turns ratio pri : sec
							pri	sec	
A9784-BL	33	36 – 75	3.3	10.0	1.30	3.50	0.850	0.016	6 : 1
A0152-AL	35	36 – 75	5.0	7.0	1.30	2.50	0.850	0.018	4 : 1
B0310-AL	60	36 – 75	12	5.0	1.30	2.50	0.850	0.060	2 : 1

¹ When ordering, please specify packaging code: e.g. B0310-ALD

Packaging:

D = 13" machine-ready reel

EIA RS-481 clear plastic tape (250 parts per full reel).

B = Less than full reel

In tape, not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

² 15°C temperature rise typical at output current.

³ Inductance measured between pins 1 and 3 at 250 kHz, 0.1 Vrms, 0 Adc.

- 4 Primary/secondary isolation 1500 Vrms.
- 5 Operating temperature range: -40°C to +85°C.
- 6 Electrical specifications at 25°C.

Input Choke Inductor

Part number ¹ <i>Click for samples</i>	Inductance $\pm 20\%$ ² (μ H)	DCR max (Ohms)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms (A) ⁵	
					20°C rise	40°C rise
MSS6132-103ML	10	0.085	39	1.3	1.9	2.5

- 1 When ordering, please specify packaging code: e.g. [MSS6132-103MLC](#)

Packaging:

C = 7" machine-ready reel

EIA RS-481 clear plastic tape (350 parts per full reel).

B = Less than full reel

In tape, not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" reel, machine-ready

EIA RS-481 clear plastic tape. Factory order only, not stocked (1200 parts per full reel).

- 2 Inductance measured at 100 kHz, 0.1 Vrms.
- 3 SRF measured using Agilent/HP 8753D network analyzer and Coilcraft SMD-D test fixture. [Details](#)
- 4 Isat: DC current at which the inductance drops 10% (typ) from its value without current. [Details](#)
- 5 Irms: Average current for specified temperature rise from 25°C ambient. [Details](#)
- 6 Operating temperature range -40°C to +85°C. [Details](#)
- 7 Electrical specifications at 25°C.

See [Qualification Standards](#) for environmental and test data.

Output Choke Inductor

Part number ¹ <i>Click for samples</i>	Power (W)	L $\pm 10\%$ ² at 0 Adc (μ H)	Inductance ² $\pm 10\%$ (μ H)	DCR max (Ohms)		Interwinding Isolation ³ (V)	Turns ratio main : aux	Isat ⁴ (A)	Irr (A)
				main	aux				
A9785-BL	33	7.0	6.71 at 12.0 Adc	0.0066	1.95	1500	1 : 3.2	15.0	12.
A0153-AL	35	7.0	6.20 at 10.0 Adc	0.0066	1.32	1500	1 : 22	15.5	12.
B0414-AL	60	13.8	13.8 at 5.0 Adc	0.0098	0.68	1500	1 : 1.09	8.0	9.5

- 1 When ordering, please specify packaging code: e.g. [B0414-ALD](#)

Packaging:

D = 13" machine-ready reel

EIA RS-481 clear plastic tape (200 parts per full reel).

B = Less than full reel

In tape, not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- 2 Inductance measured at 10.0 kHz, 0.1 Vrms.
- 3 Isolation measured from pin 5 to pins 1, 2, 3, 4.
- 4 Isat: DC current at which inductance drops 12% (typ) from its value without current. [Details](#)
- 5 Irms: Average current for a 40°C temperature rise above 25°C ambient. [Temperature rise curves. Details](#)
- 6 Operating temperature range -40°C to +85°C. [Details](#)
- 7 Electrical specifications at 25°C.

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 Updated: September 08, 2006