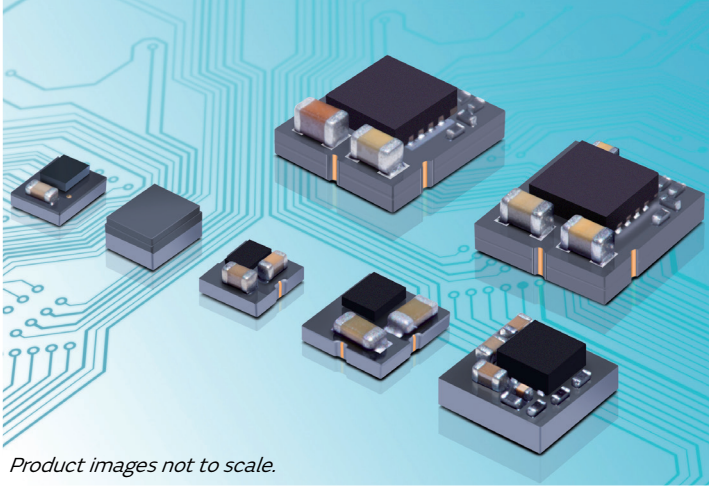


Product Brief

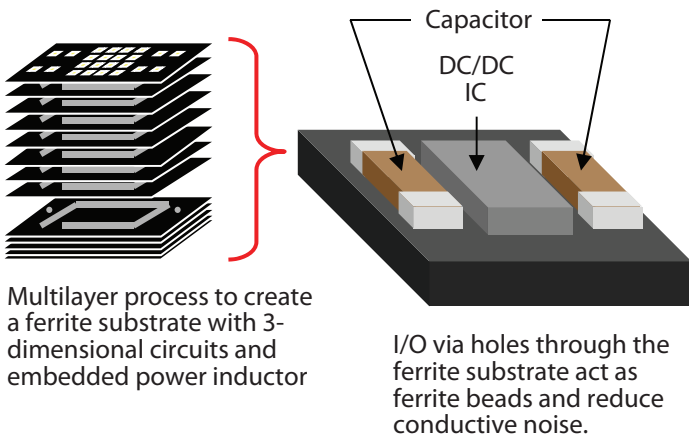
LXDC Series

μ DCDC Converters



Product images not to scale.

Structure



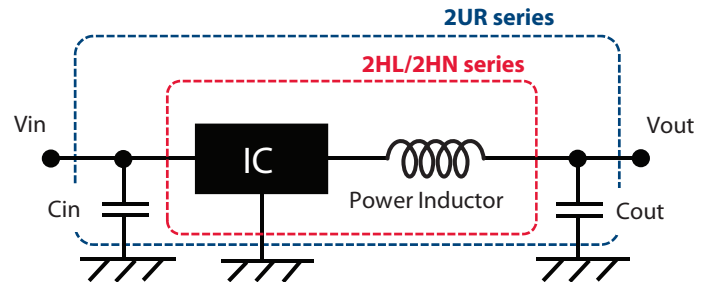
Features

- Low EMI noise and small footprint due to **inductor-embedded ferrite substrate**
- High efficiency using synchronous rectifier technology and PFM/PWM auto-select function (forced mode available on some models)
- Input voltage range: 2.3–5.5V & 4–14V (55F series)
- Load currents available are 600mA, 1A, 1.5A and 3A
- Fixed output voltage & adjustable voltage type (see product line-up table on page two)
- Switching frequency: 3MHz to 6MHz
- Operating temperature range: -40 to +85°C (105°C for 2XQ)

Applications

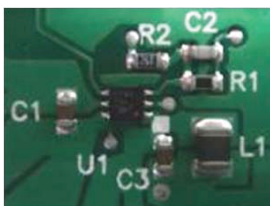
- Any device currently using discrete DC/DC circuits where downsizing and space savings are required
- Cellular phones, PDAs, mobile internet devices
- Digital cameras, ebooks, tablets, W-LAN, BT
- Portable game consoles, music players, etc.
- Base station, 12V AC/DC adaptor input devices

Application Circuit



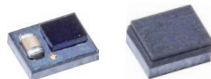
Downsizing Advantage

Discrete Solution



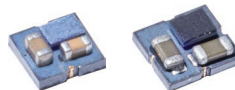
Footprint
35–60mm²

2HL or 2HN Series (0.6A)



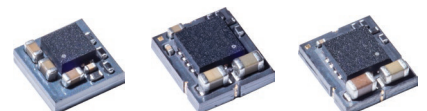
2HL 2HN
10mm²
(including two external capacitors)

2UR Series (0.6A) 2XQ Series (1.5A)



6–10mm²

44A Series (0.7A) -Boost 55K Series (3A) 55F Series (14V input, 1.5A)

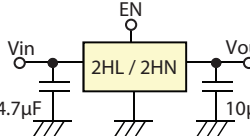
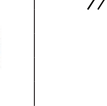
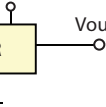
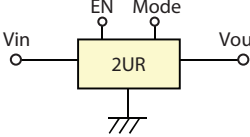
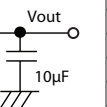
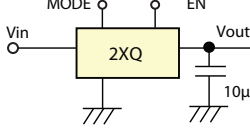
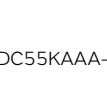
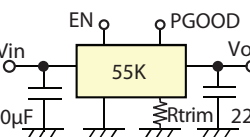
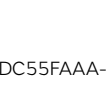
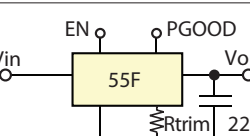
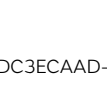
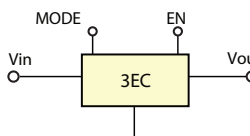
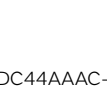
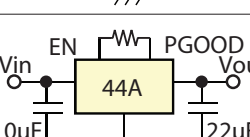


16–28mm²

LXDC Series

μDCDC Converters

Product Line-Up

Type	Load Current	Series	W x L x T (mm)	Application Circuit	Part Number	Input Voltage (V)	Output Voltage (V)	Max. Iout (mA)	Switch. Freq.	Pkg. (pcs/reel)
Buck	≤0.6A	2HL			LXDC2HL10A-080	2.3-5.5	1.0	600	3MHz	3000
					LXDC2HL12A-050		1.2			
					LXDC2HL13A-082		1.3			
					LXDC2HL1DA-087	2.35-5.5	1.35			
					LXDC2HL15A-051	2.5-5.5	1.5			
					LXDC2HL18A-052	2.8-5.5	1.8			
					LXDC2HL25A-053	3.5-5.5	2.5	500		
					LXDC2HL28A-243		2.8	450		
					LXDC2HL30A-054		3.0	400		
					LXDC2HL33A-055		3.3	300		
		2HN		(w/resin coating)	LXDC2HN10A-132	2.3-5.5	1.0	600	3MHz	3000
					LXDC2HN12A-099		1.2			
					LXDC2HN13A-236		1.3			
					LXDC2HN1DA-133	2.35-5.5	1.35			
					LXDC2HN15A-126	2.5-5.5	1.5			
					LXDC2HN18A-097	2.8-5.5	1.8			
					LXDC2HN25A-134	3.5-5.5	2.5	500		
					LXDC2HN28A-235		2.8	450		
					LXDC2HN30A-135		3.0	400		
					LXDC2HN33A-136		3.3	300		
	2UR			LXDC2UR12A-118	2.3-5.5	1.2	600	6MHz	3000	
				LXDC2UR15A-119	2.5-5.5	1.5				
				LXDC2UR18A-120	2.8-5.5	1.8				
				LXDC2UR30A-143	3.7-5.5	3.0				
				LXDC2UR33A-122	3.8-5.5	3.3				
				≤1.5A	2XQ					
	LXDC2XQ11A-298	1.2								
	LXDC2XQ12A-252	1.35								
	LXDC2XQ1DA-299	1.5								
	LXDC2XQ18A-253	1.8	800mA							
	LXDC2XQ25A-300	2.5								
	LXDC2XQ33A-254	3.0								
	≤3A	55K						LXDC55KAAA-205	2.7-5.5	
≤1.5A	55F			LXDC55FAAA-203	4.0-14.0	0.8-5.3 Set by trim resistor	1500	2.5MHz	1000	
Buck/ Boost	≤1A Buck Mode/ ≤800mA Boost Mode	3EC			LXDC3ECAAD-202	2.5-5.5	3.2-3.4V Set at factory	≤1A Buck Mode/ ≤800mA Boost Mode	6MHz	1000
Boost	≤0.7A	44A			LXDC44AAAC-169	2.7-5.5	5.0	700	3.3MHz	1000

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