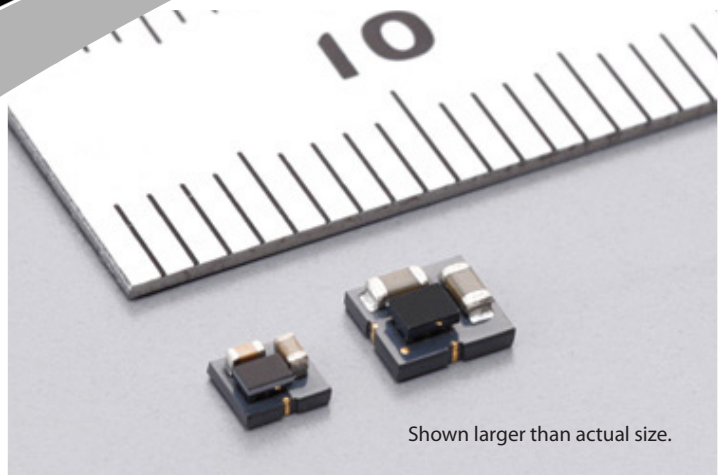
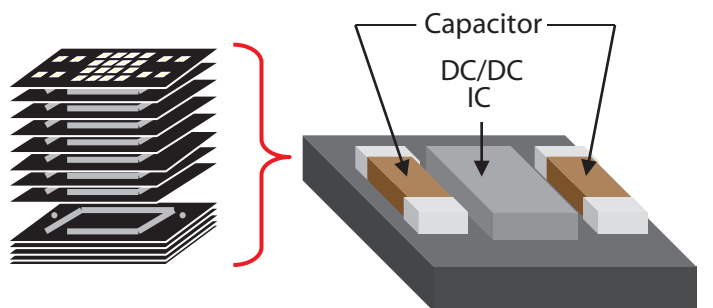


LXDC Series

μ DCDC Converters



Structure



Multilayer process to create a ferrite substrate with 3-dimensional circuits and embedded power inductor

I/O via holes through the ferrite substrate act as ferrite beads and reduce conductive noise.

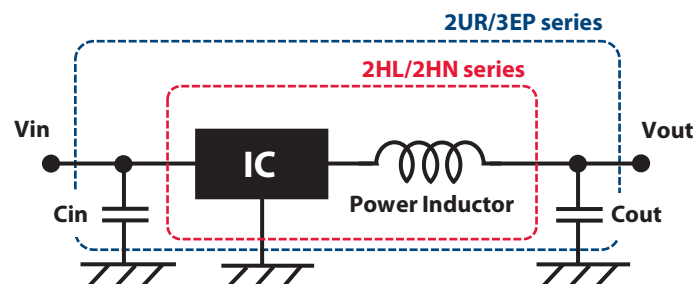
Features

- Low EMI noise and small footprint due to Murata's inductor-embedded ferrite substrate technology
- 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
- Load currents available are 600mA, 1A, 2A, and 3A
- Fixed output voltage = 1.0V, 1.2V, 1.35V, 1.5V, 1.8V, 2.5V, 3.0V, or 3.3V (see product line-up table on back)
- Switching frequency = 3.0, 3.3, 4.0, or 6MHz (see back)
- Operating temperature range = -40 to +85°C

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.

Application Circuit



Note: See back page for circuits specific to each series.

Downsizing Advantage

Discrete Solution



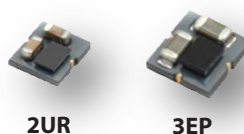
Footprint
35~60mm²

2HL or 2HN Series (0.6A)



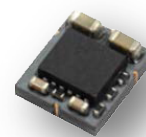
10mm²
(including two external capacitors)

2UR Series (0.6A) 3EP Series (1A)



6-10mm²
(with on-board input and output capacitors)

55K Series (3A)

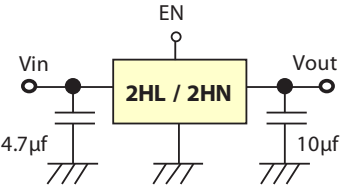
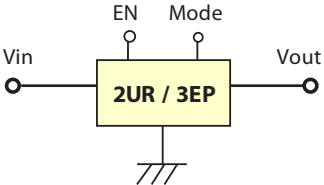
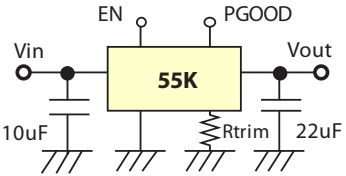
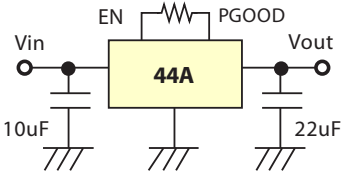


55K
28.5mm²

LXDC Series

μ DCDC 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	3,000	
					LXDC2HL12A-050	2.3-5.5	1.2				
					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					
		LXDC2HL30A-054	3.7-5.5		3.0	400					
		LXDC2HL33A-055	3.8-5.5		3.3	300					
		2HN			(w/resin coating)	LXDC2HN10A-132	2.3-5.5	1.0	600	3MHz	3,000
						LXDC2HN12A-099	2.3-5.5	1.2			
	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							
	LXDC2HN30A-135	3.7-5.5	3.0	400							
	LXDC2HN33A-136	3.8-5.5	3.3	300							
	2UR			LXDC2UR12A-118	2.7-5.5	1.2	600	6MHz	3,000		
				LXDC2UR15A-119	2.7-5.5	1.5					
				LXDC2UR18A-120	2.7-5.5	1.8					
				LXDC2UR30A-143	3.6-5.5	3.0					
				LXDC2UR33A-122	3.6-5.5	3.3					
≤1A	3EP		LXDC3EP10A-176	2.5-5.5	1.0	1000	4MHz	1,000			
			LXDC3EP12A-104	2.5-5.5	1.2						
			LXDC3EP15A-105	2.5-5.5	1.5						
			LXDC3EP18A-106	2.5-5.5	1.8						
			LXDC3EP25A-109	3.0-5.5	2.5						
			LXDC3EP33A-107	4.0-5.5	3.3						
			≤3A	55K						LXDC55KAAA-205	2.7-5.5
Product under development											
Boost	≤0.7A	44A			LXDC44AAAC-169	2.7-5.5	5.0	700	3.3MHz	1,000	