

# DC-DC Converters

**Non Isolated Type**

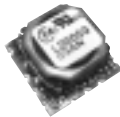

MYUSP3R303FMP



MPDRX312S



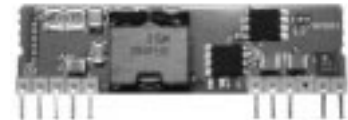
MPDTY111S



OKL Series



MPDRX002S



MPDRX103S

Part Number	Package	Input Voltage (V)	Nominal Output Power (W)	Output Voltage (V)	Current (A)	Efficiency	Size (mm) L x W x T		
MPDTH03050WAS/H	WAS=SMD WAH=Through hole	2.95 to 3.65	15	0.8 to 2.5	6	94% (2.5V/4A)	22.1x12.6x9.1 (8.5)		
MPDTH05050WAS/H		4.5 to 5.5	21.6	0.8 to 3.6		95% (3.3V/4A)			
MPDTH12050WAS/H		10.8 to 13.2	33	1.2 to 5.5		93% (5V/4A)			
MPDTH03060WAS/H		25	2.95 to 3.65	25	0.8 to 2.5	10	93% (2.5V/7A)	25.3x15.8x9.6 (9.0)	
MPDTH05060WAS/H			4.5 to 5.5	36	0.8 to 3.6		94% (3.3V/7A)		
MPDTH12060WAS/H			10.8 to 13.2	55	1.2 to 5.5		94% (5V/8A)		
MPDTH03010WAS/H	WAS=SMD WAH=Through hole	2.95 to 3.65	37.5	0.8 to 2.5	15	93% (2.5V/10A)	34.8x15.8x9.6 (9.0)		
MPDTH05010WAS/H		4.5 to 5.5	54	0.8 to 3.6		95% (3.3V/10A)			
MPDTH12010WAS/H		10.8 to 13.2	66	1.2 to 5.5	12	94% (5V/10A)	38.0x22.1x9.6 (9.0)		
MPDTH03020WAS/H		2.95 to 3.65	55	0.8 to 2.5	22	95% (2.5V/10A)			
MPDTH05020WAS/H		4.5 to 5.5	79.2	0.8 to 3.6		95% (3.3V/14A)			
MPDTH12020WAS/H		10.8 to 13.2	99	1.2 to 5.5	18	95% (5V/12A)	51.9x26.5x9.4 (9.1)		
MPDTH03030WAS/H		2.95 to 3.65	75	0.8 to 2.5	30	93% (2.5V/20A)			
MPDTH05030WAS/H		4.5 to 5.5	108	0.8 to 3.6		94% (3.3V/20A)			
MPDTH12030WAS/H		10.8 to 13.2	143	1.2 to 5.5	26	94.5% (5V/18A)			
MPDTH04040WAS/H		2.95 to 5.5	216	0.8 to 3.6	60	96% (3.3V/35A)			
MPDTH12040WAS/H		8.0 to 14.0	275	0.8 to 5.5	50	95% (3.3V/35A)			
MPDTH03050YAS/H*		WAS=SMD WAH=Through hole	2.95 to 3.65	10.8	0.55 to 1.8	6	88% (1.25V/4A)	22.1x12.6x9.1 (8.5)	
MPDTH05050YAS/H*	4.5 to 5.5		87% (1.25V/4A)						
MPDTH12050YAS/H*	10.8 to 13.2		84% (1.25V/4A)						
MPDTH03060YAS/H*	2.95 to 3.65		18	10		86% (1.25V/8A)	25.3x15.8x9.6 (9.0)		
MPDTH05060YAS/H*	4.5 to 5.5					83% (1.25V/8A)			
MPDTH12060YAS/H*	10.8 to 13.2					83% (1.25V/8A)			
MPDTH03010YAS/H*	2.95 to 3.65		27	15		88% (1.25V/10A)	34.8x15.8x9.6 (9.0)		
MPDTH05010YAS/H*	4.5 to 5.5					85% (1.25V/10A)			
MPDTH12010YAS/H*	10.8 to 13.2					21.6		12	85% (1.25V/10A)
MPDTY402S	SMD		3.0 to 5.5	52.8		0.75 to 3.3	16	95% (3.3V/7A)	33.0x13.5x8.0
MPDTY411S			4.5 to 5.5	23.1		0.8 to 3.3	7	94% (3.3V/7A)	20.3x11.4x6.2
MPDTY412S			3.0 to 3.6	17.5		0.8 to 2.5		93% (2.5V/7A)	
MPDTY413S		10.0 to 14.0	33	0.8 to 5.5	6	94% (3.3V/6A)	33.0x13.5x8.5		
MPDRX002S		3.0 to 5.5	28.8	0.8 to 1.8	16	90% (1.8V/16A)			
MPDRX004S		7.0 to 14.0	21.6		12	88% (1.8V/12A)			

\* for DDR

( ) in the size column shows the size of Through hole goods.

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Part Number	Package	Input Voltage (V)	Nominal Output Power (W)	Output Voltage (V)	Current (A)	Efficiency	Size (mm) L x W x T		
MPDRX103S	SIL	10.8 to 13.2	28.8	0.8 to 1.8	16	86% (1.8V/16A)	50.8x5.8x14.0		
MPDRX104S			39.6	1.5 to 3.3	12	88% (3.3V/12A)			
MPD6S022S		3.0 to 5.5	10.8	1.1 to 3.6	3	96% (3.3V/1A)	20.0x9.0x21.0		
MPDTY011S		2.97 to 3.63		6	1	6	84%	33.0x5.8x24.0	
MPDTY012S				7.2	1.2		87%		
MPDTY013S				9	1.5		89%		
MPDTY014S				10.8	1.8		90%		
MPDTY015S				12	2		92%		
MPDTY016S				15	2.5		93%		
MPDTY021S		4.5 to 5.5		6	1	82%			
MPDTY022S				7.2	1.2	84%			
MPDTY023S				9	1.5	86%			
MPDTY024S				10.8	1.8	88%			
MPDTY025S				12	2	89%			
MPDTY026S				15	2.5	91%			
MPDTY027S	19.8			3.3	93%				
MPDTY111S	SMD	2.97 to 3.63	6	1	6	84%	33.8x15.4x6.0		
MPDTY112S			7.2	1.2		87%			
MPDTY113S			9	1.5		89%			
MPDTY114S			10.8	1.8		90%			
MPDTY115S			12	2		92%			
MPDTY116S			15	2.5		93%			
MPDTY121S		4.5 to 5.5		6	1	82%			
MPDTY122S				7.2	1.2	84%			
MPDTY123S				9	1.5	86%			
MPDTY124S				10.8	1.8	88%			
MPDTY125S				12	2	89%			
MPDTY126S				15	2.5	91%			
MPDTY127S		SMD	4.5 to 5.5	19.8	3.3	6		93%	33.8x15.4x6.0
MPDTY102S			3.0 to 5.5	10	0.8 to 5.0	2		93% (2.4V/1A)	21.3x16.4x4.2
MYUSP3R303FMP				9.9	0.7 to 3.3	3		94% (3.3V/1A)	11.0x8.5x5.6
MYFSP3R303FMS	9.9			0.7 to 3.3	3	91% (3.3V/1A)	11.0x8.7x5.6		
MYDUS3R32GFZP	SIL		4.0 to 5.5	8.3	0.8 to 3.3	2.5	93%	19.5x9.0x13.5	
OKL-T/3-W5N-C	SMD	2.7 to 5.5	10.9	0.6 to 3.63	3	95.3%	12.2x12.2x6.2		
OKL-T/3-W5P-C									
OKL2-T/3-W5N-C									
OKL2-T/3-W5P-C									
OKL-T/6-W5N-C			21.8		6	93.5%		12.2x12.2x7.2	
OKL-T/6-W5P-C									
OKL2-T/6-W5N-C									
OKL2-T/6-W5P-C									
OKL-T/3-W12N-C		4.5 to 14.0	16.5	0.59 to 5.5	3	93%	12.2x12.2x6.2		
OKL-T/3-W12P-C									
OKL2-T/3-W12N-C									
OKL2-T/3-W12P-C									
OKL-T/6-W12N-C			33		6			93%	12.2x12.2x7.2
OKL-T/6-W12P-C									
OKL2-T/6-W12N-C									
OKL2-T/6-W12P-C									
MPDTY301S		4.5 to 5.5	23.1	0.8 to 3.3	7	95% (3.3V/7A)	27.8x15.4x4.2		
MPDTY302S		3.0 to 3.6	17.5	0.8 to 2.5		94% (2.5V/7A)			
MPDTY303S	6.5 to 14.0	44	0.8 to 5.5	8	92% (3.3V/8A)				
MPDTY311S	4.5 to 5.5	52.8	0.8 to 3.3	16	94% (3.3V/16A)				
MPDTY312S	3.0 to 3.6	40	0.8 to 2.5		91.5% (2.5V/16A)				

OKL2 is the tracking function product.

( ) in the size column shows the size of Through hole goods.

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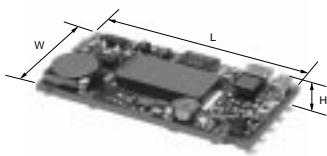
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Part Number	Package	Input Voltage (V)	Nominal Output Power (W)	Output Voltage (V)	Current (A)	Efficiency	Size (mm) L x W x T	
MPDRX301S	SMD	5.6 to 14.0	47.2	1.6 to 3.63	13	90% (3.3V/13A)	21.9x21.7x4.2	
MPDRX302S			21.5	0.8 to 1.65		82% (1.2V/13A)		
MPDRX303S			94.4	1.6 to 3.63	26	90% (3.3V/26A)	26.8x26.8x7.0	
MPDRX304S			42.9	0.8 to 1.65		84% (1.2V/26A)		
MPDRX312S		3.0 to 5.5	28.8	0.8 to 1.8	16	86.5% (1.8V/16A)	27.8x15.4x4.2	
MPDRX313S		4.5 to 5.5	85.8	0.8 to 3.3	26	85.4% (1.2V/20A)	26.8x26.8x7.0	
MPDRX021S			18	0.85 to 1.8	10	87% (1.2V/10A)	22.1x15.8x8.4	
MPDRX307S		6.2 to 13.2	23.6	1.6 to 3.63	6.5	91% (3.3V/5A)	20.2x17.6x4.2	
MPDRX308S			10.7	0.8 to 1.6		82% (1.2V/5A)		
MPD6M031S		10.8 to 13.2	30	1.2 to 5.0	6	92% (2.5V/6A)	29.6x20.9x7.2	
MPDTY321S		4.5 to 5.5	13.2	0.8 to 3.3	4	93% (3.3V/4A)	15.8x15.4x2.9	
MYSSM0123ECEN		17 to 40	42	5.0 to 12.0	3.5	97% (12V/3.5A)	30.2x20.9x12.0	
MYGTC012R5BZN		SIL	17.0 to 40.0	8.5	Vo1=5.0 Vo2=12.0	Io1=0.5 Io2=0.5	89%	25.1x12.0x27.0
MYGTR1205BZN				36	5.0 to 12.0	3 to 5.2	93%	
MYGTM01210BZN	120			10		97%		
MYSSM3R31ECEN	SMD	21.6 to 26.4	4.95	3.3	1.5	88%	30.2x20.9x12.0	

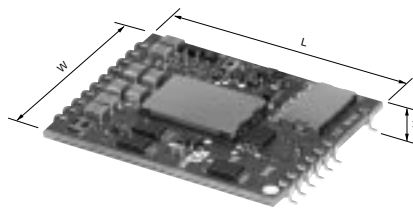
( ) in the size column shows the size of Through hole goods.

## DC-DC Converters

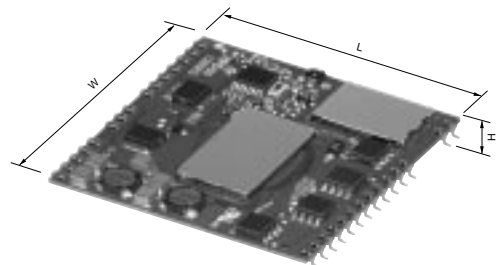
### Isolated Type



MPD5D01\*S Series



MPD6D10\*S/11\*S/20\*S Series  
MPD7D06\*S Series



MPD6D12\*S Series  
MPD7D05\*S/13\*S/12\*S Series

Part Number	Package	Input Voltage (V)	Nominal Output Power (W)	Output Voltage (V)	Current (A)	Efficiency	Size (mm) L x W x T	
MPDKN004S	1/4 Brick Tyoe Through hole	36.0 to 75.0	50	1.8	15	85%	57.0x36.8x5.5	
MPDKN006S				2.5		87%		
MPDKN007S				3.3		88%		
MPDKN008S				5	10	89%		
MPD5D013S	SMD		5	5	1.5	0.8	70%	27.0x14.6x4.7
MPD5D014S					1.8	1	75%	
MPD5D016S					2.5	1.2	80%	
MPD5D017S					3.3	1.5	84%	
MPD5D018S		5			1	85%		

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Part Number	Package	Input Voltage (V)	Nominal Output Power (W)	Output Voltage (V)	Current (A)	Efficiency	Size (mm) L x W x T			
MPD6D101S	SMD	36.0 to 75.0	10	12	0.8	88%	39.9x22.4x4.2			
MPD6D102S				1.2	3.5	79%				
MPD6D103S				1.5		82%				
MPD6D104S				1.8	3	86%				
MPD6D105S				2		88%				
MPD6D106S				2.5						
MPD6D107S				3.3	2	89%				
MPD6D108S				5						
MPD6D109S				5.2	15	12		1.2	86%	39.9x31.2x4.2
MPD6D111S				1.2		5.2		82%		
MPD6D112S			1.5	84%						
MPD6D113S			1.8	4.5		87%				
MPD6D114S			2.5			88%				
MPD6D116S			3.3							
MPD6D117S			5	3		90%				
MPD6D118S			5.2							
MPD6D119S			3.3	4.5	87%	30.5x39.9x4.2				
MYLPW3R34EAFN			18.0 to 60.0							
MPD6D122S			36.0 to 75.0	30	1.2	12	84%	45.0x45.0x4.4		
MPD6D123S					1.5	11	86%			
MPD6D124S					1.8		88%			
MPD6D126S					2.5	10	89%			
MPD6D127S		3.3			9	91%				
MPD6D128S		5			6	92%				
MPD7D067S		35		3.3	10.6	90%	39.3x30.1x8.0			
MPD7D068S				5	7					
MPD7D052S		50		1.2	16	86%	45.0x36.2x4.2			
MPD7D053S				1.5	17	84%				
MPD7D054S				1.8	16	86%				
MPD7D056S				2.5	15	89%				
MPD7D057S				3.3		90%				
MPD7D058S				5	10					
MPD6D207S		18.0 to 36.0		30	3.3	9	91%	39.3x30.1x8.0		
MPD6D209S	5				6					
MPD7D137S	36.0 to 75.0	80		3.3	24	92%	45.0x45.0x8.5			
MPD7D138S				5	16	93%				
MPD7D128S		100		20	92.5%					