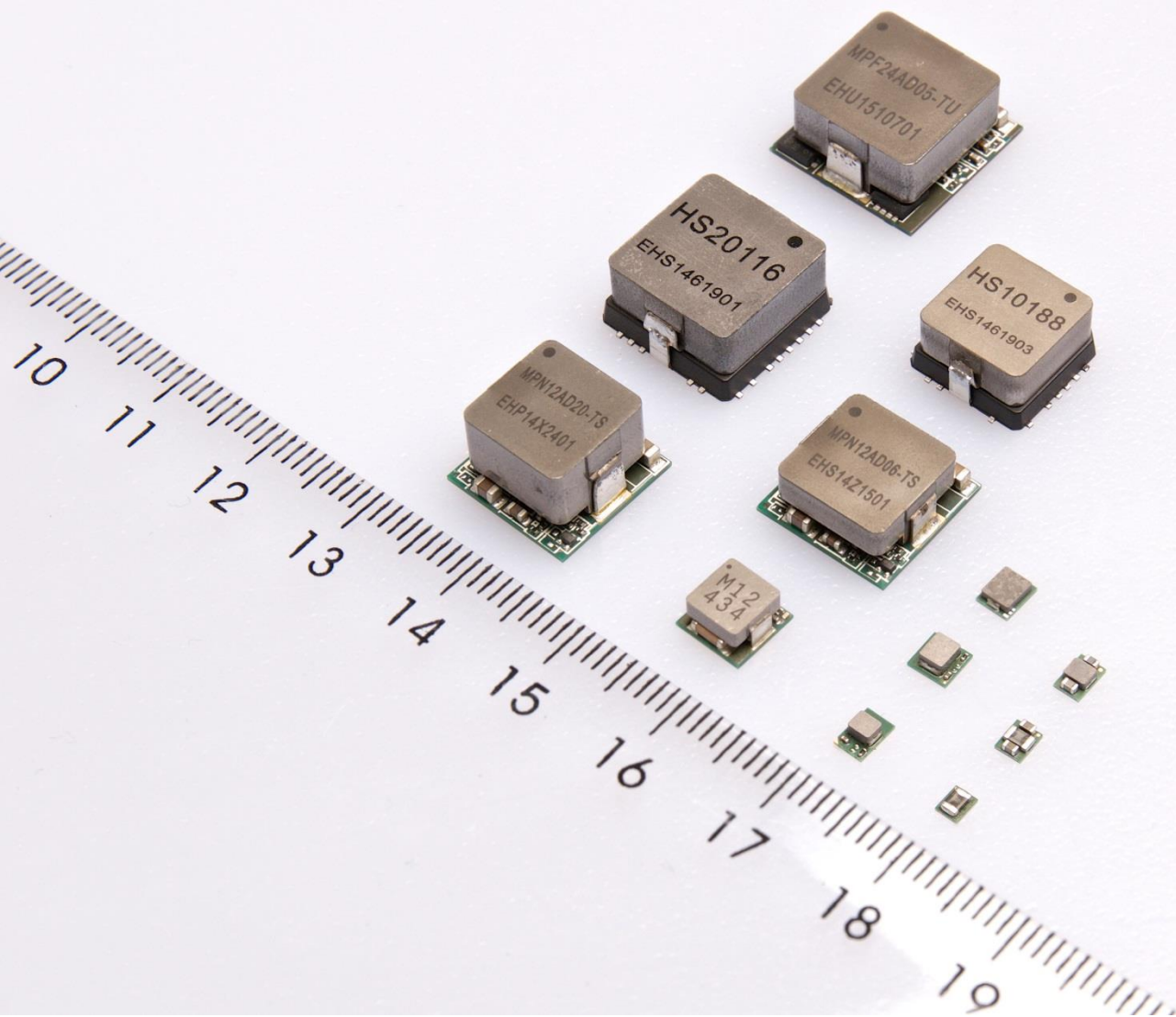


Power Module Catalog





Cyntec Power Modules are Point of Load (POL) DC-DC converters integrating controller chips, chokes and I/O capacitors into a single power management package for step-down(buck) or step-up(boost) applications. The low profile and compact size enables significant saving of board space, high efficiency enhances application performance, and design structure allows automated assembly by standard surface mount equipment. In service, Cyntec provides strong and timely design and development support for customized products and packages.

APPLICATION

- Miniature portable (1A, 2A, 3A): SSD, Smartphone, USB, DSP, MCU, Wearable, Video Surveillance, Small Cell, Industrial Control Circuit
- Industrial (5A, 6A, 12A, 20A,40A,60A): video system, video surveillance, base-station, FPGA, networking, server, switching, storage, IPC, industrial, equipment

PRODUCT SPECIFICATION

	Cyntec P/N	Input Voltage(V)	Output Voltage(V)	Output Current(A)	Dimension XY(mm*mm)	Dimension Z(mm)	Pgood
IC-Embedded	MUN3C1HR6-FB	2.3-5.5	1.82	0.6	2.5*2.3	1.05	N
	MUN3C1DR6-SB	2.7-5.5	1.35	0.6	2.5*2.0	1.1	N
	MUN3C1BR6-SB	2.7-5.5	1.2	0.6	2.5*2.0	1.1	N
	MUN3C1HR6-SB	2.7-5.5	1.8	0.6	2.5*2.0	1.1	N
	MUN3C1ER6-SB	2.7-5.5	1.5	0.6	2.5*2.0	1.1	N
	MUN3CAD01-SC	2.7-5.5	0.8-4.0	1.0	2.9*2.3	1.05	N
	MUN12AD01-SG	4.5-16.0	0.8-6.0	1.0	3.9*2.6	1.7	N
	MUN12AD01-SH	4.5-17.0	1.0-5.0	1.0	3.5*3.5	1.7	Y
	MUN24AD01-SH	4.5-28.0	2.0-8.5	1.0	3.5*3.5	1.7	N
	MUN123C01-SGA	4.5-16.0	3.3	1.0	3.9*2.6	1.7	N
	MUN123C01-SGB	4.5-16.0	3.3	1.0	3.9*2.6	1.7	N
	MUN3CAD03-SF	2.75-5.5	0.6-3.3	3.0	3.0*3.0	1.3	Y
	MUN3CAD03-SH	2.75-5.5	0.6-3.3	3.0	3.5*3.5	1.7	Y
	MUN12AD03-SE	4.5-17.0	0.6-5.5	3.0	3.0*2.8	1.5	Y
	MUN12AD03-SH	4.5-16.0	0.6-5.5	3.0	3.5*3.5	1.7	Y
	MUN20AD03-SH	8.0-24.0	0.6-5.0	3.0	3.5*3.5	1.5	Y
	MUN12AD03-SM	4.5-16.0	0.6-5.5	3.0	6.0*6.0	3.5	Y
	MUN20AD03-SM	9.0-24	0.6-5.5	3.0	6.0*6.0	3.5	Y
	MUN24AD03-SM	8.0-34.0	5.0-12.0	3.0	6.0*6.0	3.5	N
	MUN12AD05-SMFH	4.5-20.0	1.9-5.0	5.0	6.0*6.0	3.5	Y
	MUN12AD05-SMFL	4.5-20.0	0.6-1.8	5.0	6.0*6.0	3.5	Y
	MUN12AD06-SM	7.0-24.0	0.6-15.0	6.0	6.0*6.0	3.5	Y
Open Frame	MPN12AD06-TS	4.5-16.0	0.6-5.5	6.0	12.19*12.19	5.4	Y
	MPN12AD12-TS	4.5-16.0	0.6-5.5	12.0	12.19*12.19	8.4	Y
	MPN12AD20-TS	4.5-14.5	0.6-5.0	20.0	12.19*12.19	8.4	Y
Molding	MMS0505R2-TT	4.5-5.5	5.0	0.2	19.6*6.0	10.2	N
	MSN24VD03-GR	5.1-24.0	5.1-20.0	3.0	9.4*8.6	6.3	Y
	HM10107B	1.0-15.0	0.6-5.5	10.0	5.0*15.0	3.7	Y
	MSN05AD02-SQ	4.0-8.0	12.0-16.0	2.0	10.0*9.0	6.5	Y
	HS10188	4.5-15.0	1.0-6.0	10.0	12.0*12.0	6.05	Y
	MSM12AD12-MP	4.5-16.0	0.6-5.5	10.0	8.6*7.5	6.5	Y
	HS20116	4.5-20.0	0.8-5.5	20.0	14.5*14.5	7.45	Y
	MSN12AD20-MQ	4.5-15.0	0.6-5.5	20.0	10.0*9.0	6.5	Y
	MSN12AD30-FR	4.5-14.0	0.5-2.5	30.0	14.2*7.8	6.35	Y
	MSN12AD40-RUD	4.5-15.0	0.6-1.8	40.0	16.0*16.0	8.0	Y
Auto-Grade	VUN12AD01-SH	4.5-28.0	2.0-8.5	1.0	3.5*3.5	1.7	N
	VSN12AD02-MN	4.0-32.0	1.2-8.0	2.0	7.8*6.0	5.2	Y

0.2A 0.6A 1A 2A 3A 5A 6A 10A 12A 20A 25A 30A 40A 60A Auto-Grade

0.2A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MMS0505R2-TT	4.5-5.5	5.0	19.6	6.0	10.2	5Vi/5Vo 76%Peak 85 ⁰ @0.2A

0.6A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MUN3C1HR6-FB	2.3~5.5	1.82	2.5	2.3	1.05	3.8Vi/1.82Vo 89.5%Peak No De-rating @ 0.6A
MUN3C1DR6-SB	2.7~5.5	1.35	2.5	2.0	1.1	3.3Vi/1.35 Vo 87.3%Peak No De-rating @ 0.6A
MUN3C1BR6-SB	2.7~5.5	1.2	2.5	2.0	1.1	3.3Vi/1.2Vo 85.5%Peak No De-rating @ 0.6A
MUN3C1HR6-SB	2.7~5.5	1.8	2.5	2.0	1.1	3.3Vi/1.8Vo 89.5%Peak No De-rating @ 0.6A
MMN3C1ER6-SB	2.7~5.5	1.5	2.5	2.0	1.05	3.3Vi/1.5Vo 88%Peak No De-rating @ 0.6A

1A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MUN3CAD01-SC	2.7~5.5	0.8~4.0 Adjustable	2.9	2.3	1.05	3.3Vi / 2.5Vo 94% Peak 77 ⁰ @ 1A
MUN12AD01-SG	4.5~16.0	0.8~6.0 Adjustable	3.9	2.6	1.7	12.0Vi / 5Vo 94.5% Peak No De-rating @ 1A
MUN12AD01-SH	4.5~17.0	1.0~5.0 Adjustable	3.5	3.5	1.7	12.0Vi / 3.3Vo 89% Peak No De-rating @ 1A
MUN24AD01-SH	4.5~28.0	2.0~8.5 Adjustable	3.5	3.5	1.7	12.0Vi / 5.0Vo 91% Peak No De-rating @ 1A
MUN123C01-SGA	4.5~16.0	3.3	3.9	2.6	1.7	5Vi/3.3Vo 94%Peak No De-rating @ 1.0A-0LFM
MUN123C01-SGB	4.5~16.0	3.3	3.9	2.6	1.7	5Vi/3.3Vo 94%Peak No De-rating @ 1.0A-0LFM

2A

Part Number	Input Voltage	Output Voltage	Dimension			η %/De-rating
	(V)	(V)	L (mm)	W (mm)	T (mm)	
MSN05AD02-SQ	4.0~8.0	12.0~16.0 Adjustable	10.0	9.0	6.5	5.0Vi / 15.0Vo 95% Peak De-rating 70.1°C @2A

3A

Part Number	Input Voltage	Output Voltage	Dimension			η %/De-rating
	(V)	(V)	L (mm)	W (mm)	T (mm)	
MUN3CAD03-SF	2.7~5.5	0.6~3.3 Adjustable	3.0	3.0	1.3	5.0Vi / 3.3Vo 94% Peak No De-rating @ 3A
MUN3CAD03-SH	2.75~5.5	0.6~3.3 Adjustable	3.5	3.5	1.7	5.0Vi / 3.3Vo 95% Peak No De-rating @ 3A
MUN12AD03-SE	4.5~7.0	0.6~5.5 Adjustable	3.0	2.8	1.5	12Vi/5Vo 92%Peak 58C @ 3A
MUN12AD03-SH	4.5~16.0	0.6~5.0 Adjustable	3.5	3.5	1.7	12.0Vi / 5.0Vo 91% Peak 62° @ 3A
MUN20AD03-SH	8.0~24.0	8.0~24.0 Adjustable	3.5	3.5	1.5	12.0Vi / 5.0Vo 93% Peak De-rating 77°C @3A
MUN12AD03-SM	4.5~16.0	0.6~5.0 Adjustable	6.0	6.0	3.5	12.0Vi / 5.0Vo 92% Peak 82° @ 3A
MUN20AD03-SM	9.0~24.0	0.6~5.5 Adjustable	6.0	6.0	3.5	20.0Vi/ 5.0Vo 93% Peak 76° @ 3A
MUN24AD03-SM	8.0~34.0	5.0~12.0 Adjustable	6.0	6.0	3.5	24.0Vi / 5.0Vo 91% Peak 62° @ 3A
MSN24VD03-GR	5.1~24	5.1~15	9.4	8.6	6.3	12.0Vi / 5.0Vo 96% Peak No De-rating @ 3A

5A

Part Number	Input Voltage	Output Voltage	Dimension			η %/De-rating
	(V)	(V)	L (mm)	W (mm)	T (mm)	
MUN12AD05-SMFL	4.5~20.0	0.6~1.8 Adjustable	6.0	6.0	3.5	12Vi/1.8Vo 86%Peak 83C @ 5A
MUN12AD05-SMFH	4.5~20.0	1.9~5.0 Adjustable	6.0	6.0	3.5	12Vi/5Vo 92%Peak 53C @ 5A

6A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MUN12AD06-SM	7.0~24.0	0.6~15.0 Adjustable	6.0	6.0	3.5	12.0Vi / 5.0Vo 93% Peak 72° @ 6A
MPN12AD06-TS	4.5~16.0	0.6~5.5 Adjustable	12.19	12.19	5.4	12.0Vi / 5.0Vo 96% Peak 79° @ 6A

10A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
HM10107B	1.0~15.0	0.6~5.5 Adjustable	15.0	15.0	3.7	12.0Vi / 3.3Vo 93.0% Peak 64° @ 10A

12A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MUN12AD12-MP	4.5~16.0	0.6~5.5 Adjustable	8.6	7.5	6.5	12.0Vi / 5.0Vo 96% Peak No De-rating @ 12A
MPN12AD12-TS	4.5~16.0	0.6~5.5 Adjustable	12.19	12.19	8.4	12.0Vi / 5.0Vo 96.5% Peak 78° @ 12A

20A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MSN12AD20-MQ	4.5~15.0	0.6~5.5	10.0	9.0	6.5	12.0Vi / 5.0Vo 96% Peak 49° @ 20A
MPN12AD20-TS	4.5~14.5	0.6~5.0 Adjustable	12.19	12.19	8.4	12.0Vi / 5.0Vo 96.5% Peak 53° @ 20A
HS20116	4.5~20	0.8~5.5 Adjustable	14.5	14.5	7.45	12.0Vi / 5.0Vo 96.0% Peak 43° @ 20A

25A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MSN12VD25-FQ	4.5~14.0	0.6~5.5	12.0	7.0	10.1	12Vi/3.3Vo 93.5%Peak 1.0Vo 78°C@25A-0LFM 3.3Vo 58°C @25A-0LFM

30A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MSN12VD30-FR	4.5~14.0	0.5~2.5	14.2	7.8	6.35	12.0Vi / 1.0Vo 91% Peak De-rating 70°C @ 30A

40A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MSN12AD40-RUD	8.0~15	0.6~1.8	16.0	16.0	7.5	12.0Vi / 0.85Vo 90% Peak No De-rating @40A"

60A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
MSN12D60-RUD	8.0~15	0.6~1.8	16.0	16.0	7.5	12.0Vi / 0.85Vo 87%Peak 55° @ 60A

Auto-Grade

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension			η %/De-rating
			L (mm)	W (mm)	T (mm)	
VUN12AD01-SH	4.5~28.0	2.0~8.5	3.5	3.5	1.7	12.0Vi / 5.0Vo 91% Peak De-rating @ 0.53A
VSN12AD02-MN	4.0~32.0	1.2~8.0	7.8	6.0	5.2	12.0Vi / 6Vo 94.5% Peak 90C@2A

CONTACT US

Beside the standard products, we also make customize products according to your different request and specifications. If you have any question or request, please contact us. We will reply to you as soon as possible.

Contact Window: [Eliot-Huang](#)

Tel: +886 3 579 9829 Ext.1203

Fax: +886 3 579 9827

Email: Eliot-Huang@cyntec.com or service@cyntec.com

More detail information in <http://www.cyntec.com>



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