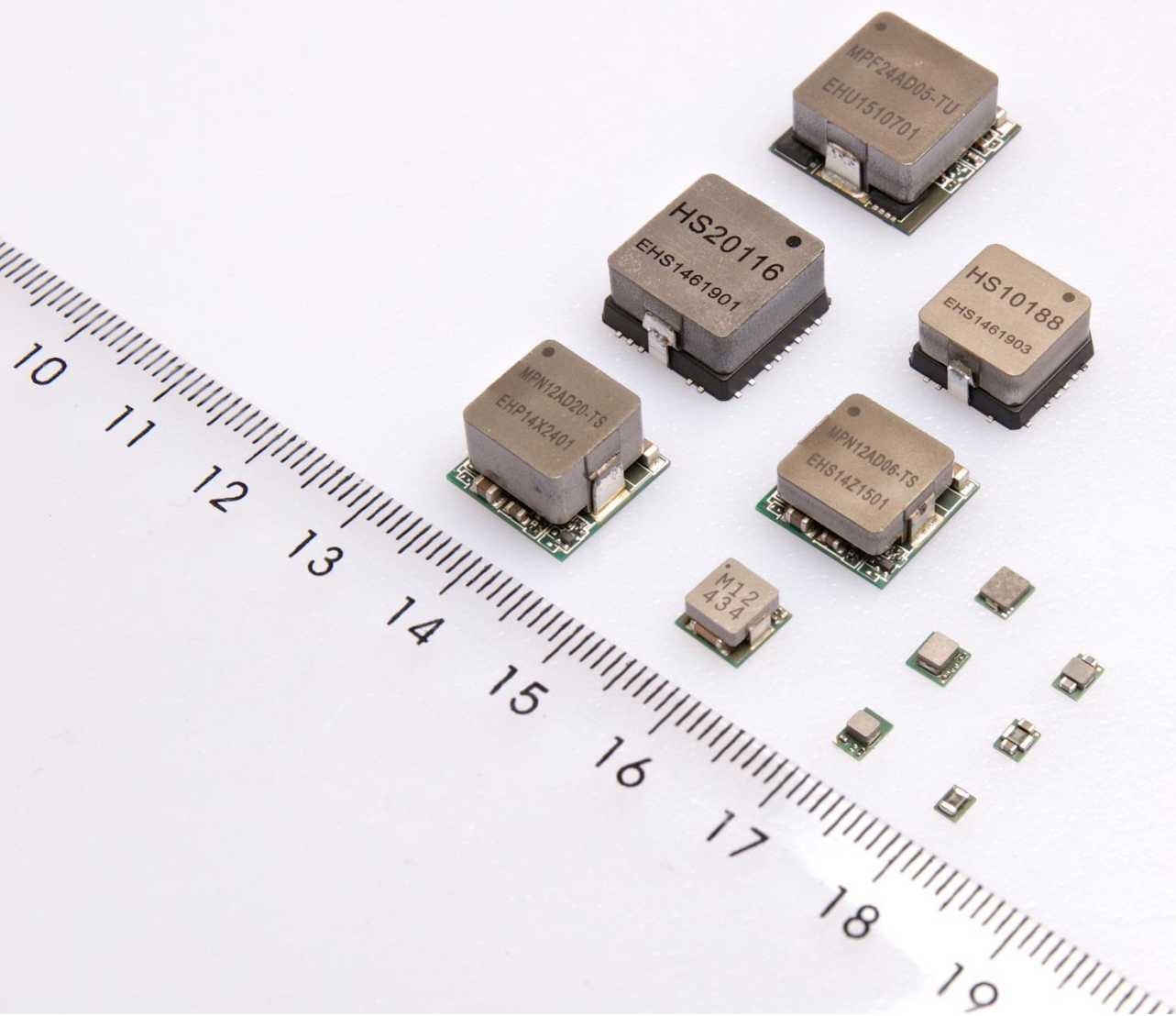


POWER MODULE





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

Power Module (Consumer-Grade)

0.2A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MMS0505R2-TT	19.6	6.0	10.0	4.5~5.5	5.0

0.6A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MUN3C1BR6-SB	2.5	2.0	1.1	2.7~5.5	1.2
MUN3C1CR6-SB	2.0	2.5	1.1	2.7~5.5	1.25
MUN3C1DR6-SB	2.0	2.5	1.1	2.7~5.5	1.35
MUN3C1ER6-SB	2.5	2.0	1.1	2.7~5.5	1.5
MUN3C1HR6-SB	2.5	2.0	1.1	2.7~5.5	1.8
MUN3C1HR6-FB	2.5	2.3	1.05	2.3~5.0	1.82

1A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MUN3CAD01-SB	2.0	2.5	1.1	2.5~5.5	0.8~4.0
MMN12AD01-SG	2.6	3.9	1.5	4.5~16.0	0.8~6.0
MUN3CAD01-SC	2.9	2.3	1.05	2.7~5.5	0.8~4.0
MUN12AD01-SG	3.9	2.6	1.7	4.5~16.0	0.8~6.0
MUN12AD01-SH	3.5	3.5	1.7	4.5~17.0	1.0~5.0
MUN24AD01-SH	3.5	3.5	1.7	4.5~28.0	2.0~8.5
MUN123C01-SGB	3.9	2.6	1.7	4.5~16.0	3.3

2A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MUN3CAD02-JE	3.5	2.5	1.5	2.7~5.5	0.6~3.3

3A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MUN3CAD03-JB	2.5	2.0	1.3	2.5~5.5	0.6~4
MUN12AD03-SEC	2.8	3.0	1.5	4.5~17.0	0.8~5.5
MUN12AD03-SECM	2.8	3.0	1.7	4.5~17.0	0.8~5.5
MUN3CAD03-JE	3.0	2.8	1.3	2.7~5.5	0.6~4
MUN3CAD03-SE	2.8	3.0	1.3	2.75~5.5	0.6~3.3
MUN3CAD03-SF	3.0	3.0	1.3	2.75~5.5	0.6~3.3
MUN12AD03-SH	3.5	3.5	1.7	4.5~16.0	0.6~5.0
MUN12AD03-SM	6.0	6.0	3.5	4.5~16.0	0.6~5.0
MUN24AD03-SM	6.0	6.0	3.5	4.5~34.0	5.0~12.0
MUN20AD03-SM	6.0	6.0	3.5	9.0~24.0	0.6~5.5
MPN24AD03-UP-T	7.4	8.6	6.0	4.75~26.5	3.0~21.0

5A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MUN3CAD05-JF	3.0	3.0	1.5	2.7~5.5	0.6~3.3
MUN12AD05-SMFH	6.0	6.0	3.5	4.5~20.0	1.9~5.0
MUN12AD05-SMFL	6.0	6.0	3.5	4.5~20.0	0.6~1.8

6A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MUN12AD06-SM	6.0	6.0	3.5	7.0~24.0	0.6~6.0
MPN12AD06-TS	12.19	12.19	5.4	4.5~16.0	0.6~5.5

12A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MPN12AD12-TS	12.19	12.19	8.4	4.5~16.0	0.6~5.5
MSN12AD12-MP	8.6	7.5	6.5	4.5~16.0	0.6~5.5

20A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MSN12AD20-MQ	10.0	9.0	6.5	4.5~15.0	0.6~5.5
MPN12AD20-TS	12.19	12.19	8.4	4.5~14.5	0.6~5.0

30A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
MSN12VD30-FR	14.2	7.8	6.35	4.5~16.0	0.5~2.5

Power Module (Automotive-Grade)

1A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
VUN12AD01-SH	3.5	3.5	1.7	4.5~28.0	3.0~8.5
VUN12AD01-SHC	3.5	3.5	1.7	4.5~28.0	0.8~8.5

3A

Part Number	Dimension(mm)			Input Voltage(V)	Output Voltage(V)
	L	W	T		
VUN12AD03-KM	6.0	6.0	3.5	4.0~36.0	0.9~8.0
VUN12AD03-KMH	6.0	6.0	2.6	8.0~36.0	0.9~5.0