



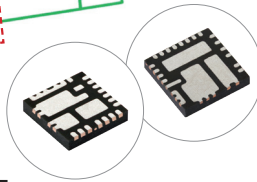
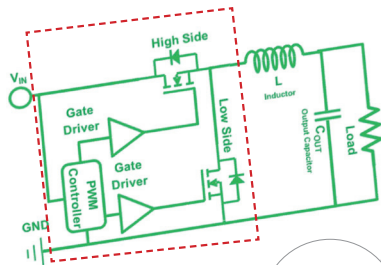
The DNA of tech.®

Highly Integrated POL Solutions

microBUCK® and microBRICK™ DC/DC Regulators

SMALL ▪ EASY ▪ EFFICIENT

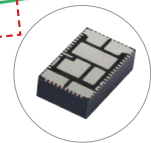
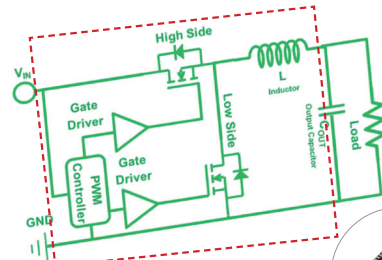
Choose the Right Buck Converter From 2 A to 40 A



microBUCK®

1 POL regulator + 2 MOSFETs

SiC43x / SiC45x / SiC46x / SiC47x Series
MLP 4 x 4 / 5 x 5 / 5 x 7



microBRICK®

1 POL regulator + 2 MOSFETs + 1 inductor

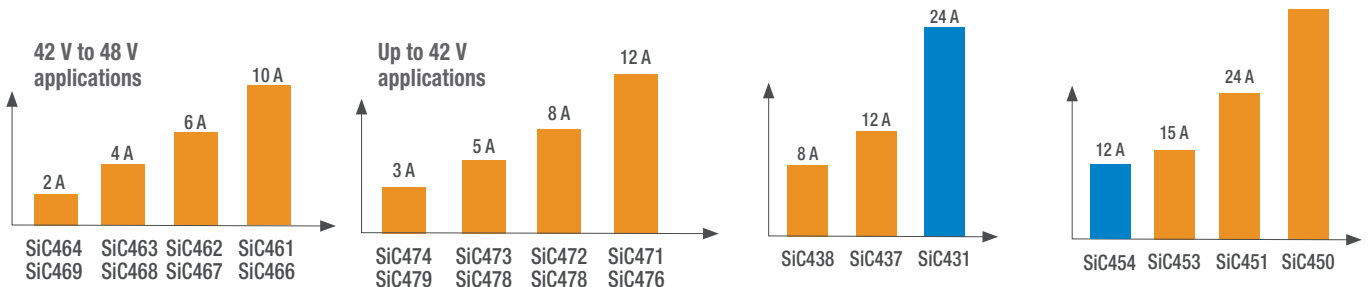
Si93x / SiC96x / SiC95x Series
MLP 10 x 6

THE POWER OF MANY IN 1

Highly integrated microBUCK® and microBRICK® POL solutions from Vishay Intertechnology deliver high efficiency while reducing costs. Each family offers a large portfolio of high density parts with common pinouts, allowing designers to scale for the best combination of cost and performance.

Scalable Solutions

microBUCK®



SiC47x : $V_{IN} = 4.5 \text{ V to } 55 \text{ V}$

PowerPAK® 5 x 5 Package

SiC46x : $V_{IN} = 4.5 \text{ V to } 60 \text{ V}$

$V_{IN} = 3 \text{ V to } 28 \text{ V}$ $V_{IN} = 3 \text{ V to } 24 \text{ V}$
PowerPAK® 4 x 4 Package

SiC45x : $V_{IN} = 4.5 \text{ V to } 20 \text{ V}$

PowerPAK® 5 x 5 Package
PowerPAK® 5 x 7 Package

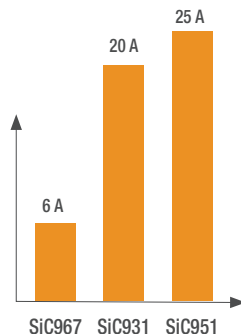
microBRICK®

SiC967: $V_{IN} = 4.5 \text{ V to } 60 \text{ V}$

SiC931: $V_{IN} = 4.5 \text{ V to } 18 \text{ V}$

SiC951 $V_{IN} = 4.5 \text{ V to } 20 \text{ V}$

PowerPAK® 10 x 6 Package



Rugged and Reliable



PowerCAD

design tool

Design your application using our online PowerCAD simulation tool



Highly Integrated POL Solutions

microBUCK® and microBRICK® DC/DC Regulators

The DNA of tech.®

microBUCK®

Family	P/N	Input (V)	V _{out} (V)	Maximum Current	Compensation		Features			Protections				Package
					Internal	External	PGOOD	SYNC	PMBUS	VCC-UVLO	OCP	OVP/UVIP	OTP	
SiC43x	SiC438	4.5 V to 20 V	0.6 V to 0.9* V _{IN}	8 A	√	-	√	-	-	√	√	√	√	4 mm x 4 mm
	SiC437			12 A	√	-	√	-	-	√	√	√	√	
	SiC431			24 A	√	-	√	-	-	√	√	√	√	
SiC45x	SiC454	4.5 V to 20 V	0.3 V to 12 V	12 A	√	-	√	√	√	√	√	√	√	5 mm x 5 mm
	SiC453			15 A	√	-	√	√	√	√	√	√	√	5 mm x 7 mm
	SiC451			25 A	√	-	√	√	√	√	√	√	√	
	SiC450			40 A	√	-	√	√	√	√	√	√	√	
SiC46x	SiC469	4.5 V to 60 V	0.8 V to 15 V	2 A	√	-	√	-	-	√	√	√	√	5 mm x 5 mm
	SiC468			4 A	√	-	√	-	-	√	√	√	√	
	SiC467			6 A	√	-	√	-	-	√	√	√	√	
	SiC466			10 A	√	-	√	-	-	√	√	√	√	
	SiC464	0.8 V to 55 V	-	2 A	-	√	√	-	-	√	√	√	√	
	SiC463			4 A	-	√	√	-	-	√	√	√	√	
	SiC462			6 A	-	√	√	-	-	√	√	√	√	
	SiC461			10 A	-	√	√	-	-	√	√	√	√	
SiC47x	SiC479	4.5 V to 55 V	0.8 V to 15 V	3 A	√	-	√	-	-	√	√	√	√	5 mm x 5 mm
	SiC478			5 A	√	-	√	-	-	√	√	√	√	
	SiC477			8 A	√	-	√	-	-	√	√	√	√	
	SiC476			12 A	√	-	√	-	-	√	√	√	√	
	SiC474	0.8 V to 50 V	-	3 A	-	√	√	-	-	√	√	√	√	
	SiC473			5 A	-	√	√	-	-	√	√	√	√	
	SiC472			8 A	-	√	√	-	-	√	√	√	√	
	SiC471			12 A	-	√	√	-	-	√	√	√	√	

microBRICK®

Family	P/N	V _{IN} (V)	V _{out} (V)	Maximum Current	Compensation		Features			Protections				Package
					Internal	External	PGOOD	SYNC	PMBUS	VCC-UVLO	OCP	OVP/UVIP	OTP	
SiC9xx	SiC951	4.5 V to 20 V	0.3 V to 5.5 V	25 A	√		√	√	√	√	√	√	√	10 mm x 6 mm x 3 mm
	SiC931	4.5 V to 18 V	0.6 V to 12 V	20 A	√		√			√	√	√	√	
	SiC967	4.5 V to 60 V	0.8 V to 15 V	6 A	√		√			√	√	√	√	