

800V CoolMOS™ N-Channel Power MOSFET

- [Products](#)
- [Highlights](#)
- [Documents](#)
- [Boards](#)
- [Simulation](#)
- [Videos](#)
- [Support](#)

Highly Efficient Products with Best-in-Class RDS(on)/Package

The new **800V CoolMOS™ P7** Power MOSFET family sets a new benchmark in efficiency and thermal performance, targeting applications such as [adapter](#), [LED lighting](#), audio, industrial and auxiliary power.

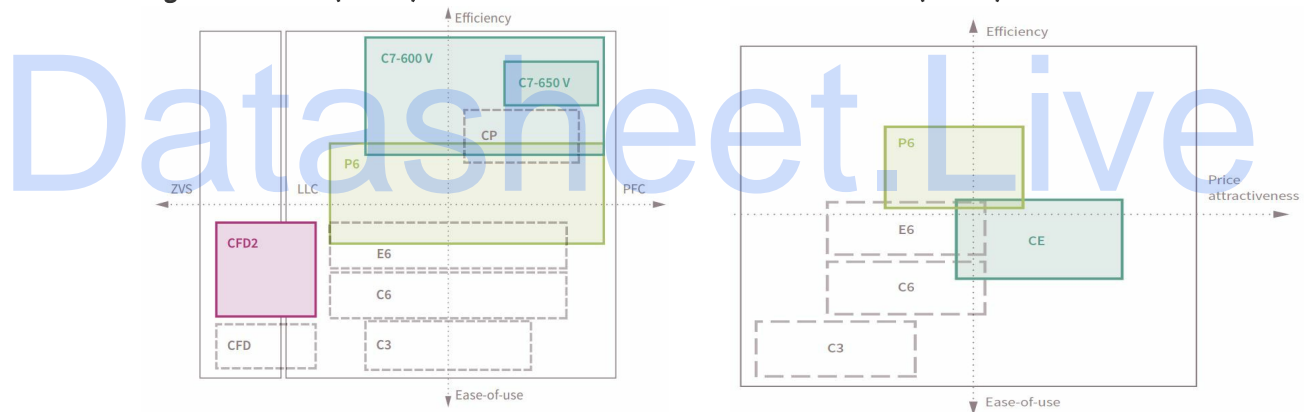
800V CoolMOS™ C3 Power MOSFETs is Infineon's high performance device family with best $R_{DS(on)}$ /package, which enables reduced conduction losses and improved efficiency. This series is designed according to the revolutionary Superjunction (SJ) principle and optimized for applications such as [Solar](#) and [Industrial Inverters](#), [PC Power Supply](#), [Adapter](#), [LCD TV](#) and [Lighting](#) applications.

Infineon's **800V CoolMOS™ CE** family is specifically optimized for LED applications, providing all benefits of a fast switching Superjunction MOSFET while not sacrificing ease of use.

[>Go to product selection table](#)

High Power SMPS (>150W)

Low Power SMPS (<150W)



NEW! 800V CoolMOS™ P7 a new benchmark in efficiency and thermal performance

[> Learn more](#)

Power Management Selection Guide 2016

[> Download](#)

Select Breakdown Voltage
1 selected: 800.0 V

I_D (max) \geq A

$R_{DS(on)}$ (max) $<$ m Ω

ATV IND Any

[Reset](#) [Find >](#)

[> Show all Parameters](#) [> Download Spreadsheet](#) [> Reset All Selections](#)

Product	OPN	Product Status	Order Online	Packages	Green	Budgetary Price €/1k	Package	Technology
Matching Results: 45		active and preferred discontinued	Buy online	PG-T0220-3 PG-T0247-3 PG-T0251-3 PG-T0252-3	yes	0.2 0.28 0.3 0.33	D2PAK (TO-263) DPAK (TO-252) I2PAK (TO-262) IPAK (TO-251)	CoolMOS™ C3 CoolMOS™ CE CoolMOS™ P7
D2PAK (TO-263)								
> SPB17N80C3	SPB17N80C3ATMA1	active and preferred		PG-T0263-3		1.79	D2PAK (TO-263)	CoolMOS™ C3
DPAK (TO-252)								
> IPD80R280P7	IPD80R280P7ATMA1	active and preferred		PG-T0252-3		-	DPAK (TO-252)	CoolMOS™ P7
> IPD80R450P7	IPD80R450P7ATMA1	active and preferred		PG-T0252-3		-	DPAK (TO-252)	CoolMOS™ P7
> SPD06N80C3	SPD06N80C3ATMA1 SPD06N80C3BTMA1	active and preferred > discontinued	 	PG-T0252-3 PG-T0252-3	 	0.57	DPAK (TO-252)	CoolMOS™ C3
> IPD80R1K0CE	IPD80R1K0CEATMA1 IPD80R1K0CEBTMA1	active and preferred > discontinued	 	PG-T0252-3 PG-T0252-3	 	0.49	DPAK (TO-252)	CoolMOS™ CE
> SPD04N80C3	SPD04N80C3ATMA1 SPD04N80C3BTMA1	active and preferred > discontinued	 	PG-T0252-3 PG-T0252-3	 	0.48	DPAK (TO-252)	CoolMOS™ C3
> IPD80R1K4CE	IPD80R1K4CEATMA1 IPD80R1K4CEBTMA1	active and preferred > discontinued	 	PG-T0252-3 PG-T0252-3	 	0.38	DPAK (TO-252)	CoolMOS™ CE
> IPD80R1K4P7	IPD80R1K4P7ATMA1	active and preferred		PG-T0252-3		-	DPAK (TO-252)	CoolMOS™ P7
> SPD02N80C3	SPD02N80C3ATMA1	active and preferred		PG-T0252-3		0.33	DPAK (TO-252)	CoolMOS™ C3
> IPD80R2K8CE	IPD80R2K8CEATMA1 IPD80R2K8CEBTMA1	active and preferred > discontinued	 	PG-T0252-3 PG-T0252-3	 	0.28	DPAK (TO-252)	CoolMOS™ CE
> IPD80R4K5P7	IPD80R4K5P7ATMA1	active and preferred		PG-T0252-3		-	DPAK (TO-252)	CoolMOS™ P7
I2PAK (TO-262)								
> SPI08N80C3	SPI08N80C3XKSA1	active and preferred		PG-T0262-3		0.73	I2PAK (TO-262)	CoolMOS™ C3
IPAK (TO-251)								
> IPU80R1K0CE	IPU80R1K0CEBKMA1 IPU80R1K0CEAKMA1	> discontinued active and preferred		PG-T0251-3 PG-T0251-3	 	0.47	IPAK (TO-251)	CoolMOS™ CE
> IPU80R1K4CE	IPU80R1K4CEBKMA1 IPU80R1K4CEAKMA1	> discontinued active and preferred		PG-T0251-3 PG-T0251-3	 	0.3	IPAK (TO-251)	CoolMOS™ CE
> IPU80R1K4P7	IPU80R1K4P7AKMA1	active and preferred		PG-T0251-3		-	IPAK (TO-251)	CoolMOS™ P7
> IPU80R2K8CE	IPU80R2K8CEBKMA1	> discontinued		PG-T0251-3		0.2	IPAK (TO-251)	CoolMOS™ CE
> IPU80R4K5P7	IPU80R4K5P7AKMA1	active and preferred		PG-T0251-3		-	IPAK (TO-251)	CoolMOS™ P7
IPAK SL (TO-251 SL)								
> IPS80R1K4P7	IPS80R1K4P7AKMA1	active and preferred		PG-T0251-3		-	IPAK SL (TO-251 SL)	CoolMOS™ P7

Product	OPN	Product Status	Order Online	Packages	Green	Budgetary Price €/1k	Package	Technology
Matching Results: 45		active and preferred discontinued	Buy online	PG-TO220-3 PG-TO247-3 PG-TO251-3 PG-TO252-3	yes	0.2 0.28 0.3 0.33	D2PAK (TO-263) DPAK (TO-252) I2PAK (TO-262) IPAK (TO-251)	CoolMOS™ C3 CoolMOS™ CE CoolMOS™ P7

TO-220

> IPP80R280P7	IPP80R280P7XKSA1	active and preferred		PG-TO220-3		-	TO-220	CoolMOS™ P7
> SPP17N80C3	SPP17N80C3XKSA1	active and preferred		PG-TO220-3		1.6	TO-220	CoolMOS™ C3
> SPP11N80C3	SPP11N80C3XKSA1	active and preferred		PG-TO220-3		0.94	TO-220	CoolMOS™ C3
> IPP80R450P7	IPP80R450P7XKSA1	active and preferred		PG-TO220-3		-	TO-220	CoolMOS™ P7
> SPP08N80C3	SPP08N80C3XKSA1	active and preferred		PG-TO220-3		0.73	TO-220	CoolMOS™ C3
> SPP06N80C3	SPP06N80C3XKSA1	active and preferred		PG-TO220-3		0.61	TO-220	CoolMOS™ C3
> SPP04N80C3	SPP04N80C3XKSA1	active and preferred		PG-TO220-3		0.49	TO-220	CoolMOS™ C3
> IPP80R1K4P7	IPP80R1K4P7XKSA1	active and preferred		PG-TO220-3		-	TO-220	CoolMOS™ P7
> SPP02N80C3	SPP02N80C3XKSA1	active and preferred		PG-TO220-3		0.33	TO-220	CoolMOS™ C3

TO-220 FullPAK

> IPA80R280P7	IPA80R280P7XKSA1	active and preferred		PG-TO220-3		-	TO-220 FullPAK	CoolMOS™ P7
> SPA17N80C3	SPA17N80C3XKSA1	active and preferred		PG-TO220-3		1.85	TO-220 FullPAK	CoolMOS™ C3
> IPA80R310CE	IPA80R310CEXKSA2	active and preferred		PG-TO220-3		0.97	TO-220 FullPAK	CoolMOS™ CE
> SPA11N80C3	SPA11N80C3XKSA1	active and preferred		PG-TO220-3		0.98	TO-220 FullPAK	CoolMOS™ C3
> IPA80R450P7	IPA80R450P7XKSA1	active and preferred		PG-TO220-3		-	TO-220 FullPAK	CoolMOS™ P7
> IPA80R460CE	IPA80R460CEXKSA2	active and preferred		PG-TO220-3		0.75	TO-220 FullPAK	CoolMOS™ CE
> SPA08N80C3	SPA08N80C3XKSA1	active and preferred		PG-TO220-3		0.82	TO-220 FullPAK	CoolMOS™ C3
> IPA80R650CE	IPA80R650CEXKSA2	active and preferred		PG-TO220-3		0.61	TO-220 FullPAK	CoolMOS™ CE
> SPA06N80C3	SPA06N80C3XKSA1	active and preferred		PG-TO220-3		0.63	TO-220 FullPAK	CoolMOS™ C3
> IPA80R1K0CE	IPA80R1K0CEXKSA2	active and preferred		PG-TO220-3		0.51	TO-220 FullPAK	CoolMOS™ CE
> SPA04N80C3	SPA04N80C3XKSA1	active and preferred		PG-TO220-3		0.52	TO-220 FullPAK	CoolMOS™ C3
> IPA80R1K4CE	IPA80R1K4CEXKSA2	active and preferred		PG-TO220-3		0.42	TO-220 FullPAK	CoolMOS™ CE
> IPA80R1K4P7	IPA80R1K4P7XKSA1	active and preferred		PG-TO220-3		-	TO-220 FullPAK	CoolMOS™ P7
> SPA02N80C3	SPA02N80C3XKSA1	active and preferred		PG-TO220-3		0.36	TO-220 FullPAK	CoolMOS™ C3

TO-247

> SPW55N80C3	SPW55N80C3FKSA1	active and preferred		PG-TO247-3		6.61	TO-247	CoolMOS™ C3
> IPW80R280P7	IPW80R280P7XKSA1	active and preferred		PG-TO247-3		-	TO-247	CoolMOS™ P7
> SPW17N80C3	SPW17N80C3FKSA1	active and preferred		PG-TO247-3		2.11	P-TO247-3-1	CoolMOS™ C3
> SPW11N80C3	SPW11N80C3FKSA1	active and preferred		PG-TO247-3		1.11	TO-247	CoolMOS™ C3



This site uses cookies. By accepting cookies you can optimize your browsing experience. Please read our [Privacy Policy](#) for more information.

OK