



产品简介

CoolMOS™ CE

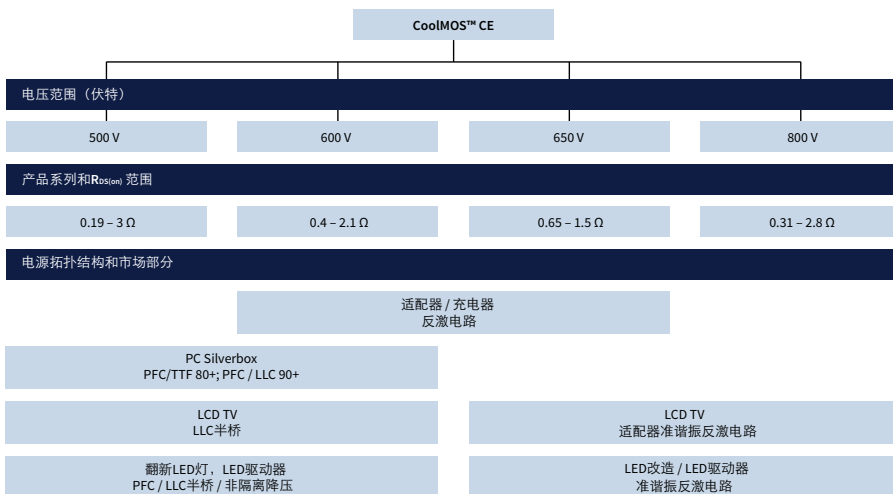
适合消费类和照明应用的最具性价比SJ器件

CoolMOS™ CE是英飞凌市场领先的高压功率MOSFET的技术平台，根据超结原理(SJ)设计，旨在满足消费者的需求。随着产品系列的扩大，英飞凌现在提供面向移动设备和电动工具、LCD、LED电视以及LED照明应用的低功率充电器的500 V、600 V、650 V和800 V设备。

此新系列的CoolMOS™经过成本优化，既严格要求CoolMOS™具有业经证明的质量和可靠性，同时兼具有吸引力的价格，也能满足消费类市场的典型需求。

CoolMOS™ CE适合硬开关和软开关应用而且作为现代SJ功率器件，具有低导通损耗和开关损耗的特点，可提高效率，并最终降低功耗。CoolMOS™ CE易于使用的特点可以让客户缩短设计周期，在急剧变化的市场上保持竞争力。

CoolMOS™ CE面向广泛的消费类和照明类应用



主要特点

- 热行为
 - 开放式外壳时的器件温度 $\leq 90^{\circ}\text{C}$
 - 封闭式外壳时的温度 $\leq 50^{\circ}\text{C}/70^{\circ}\text{C}$
- 便于满足EN55022B标准EMI要求
- 易于使用，设计快速

主要优势

- $R_{DS(on)}$ 典型值到最大值之间的小幅变化导致的导通损耗很低
- 优化的输出电容(E_{OSS})，低开关损耗
- 优化的EMI，可平衡开关速度和EMI特性
- 集成的 R_g ，良好的可控性

应用

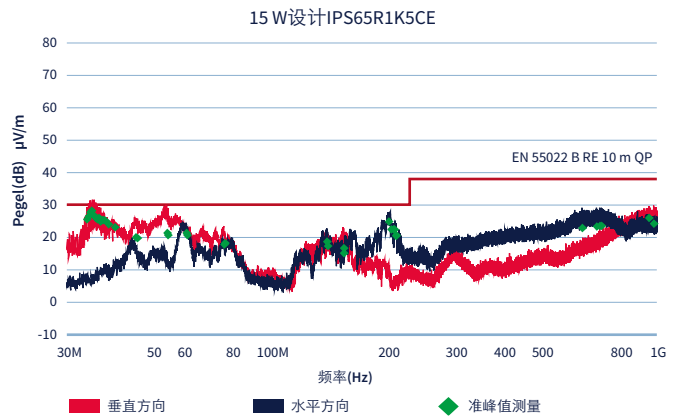
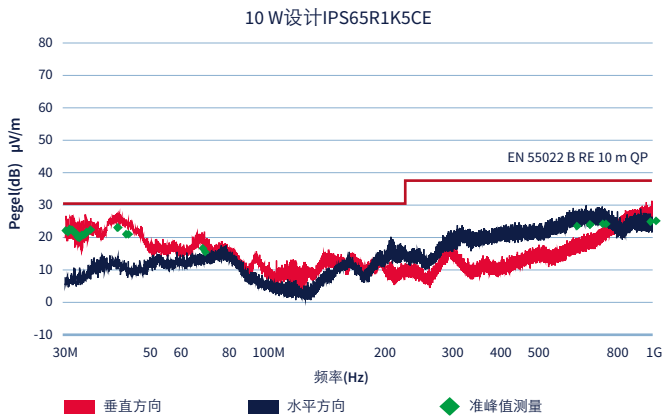
- 低功率充电器
- 适配器
- 台式电脑电源
- LCD TV
- LED翻新灯
- LED驱动器



CoolMOS™ CE

适合消费类和照明应用的最具性价比SJ器件

用于移动设备的低功率充电器的CoolMOS™ CE EMI性能



CoolMOS™ CE满足10W和15W充电器的EMI准峰值要求

建议用于低功率充电器和反激电路应用(≤45W)

600 V	$R_{DS(ON)}$ [mΩ]	TO-220 FullPAK	TO-252 DPAK	TO-251 IPAK
	2100			IPD60R2K1CE
1500			IPD60R1K5CE	IPU60R1K5CE
1000			IPD60R1K0CE	IPU60R1K0CE
800		IPA60R800CE	IPD60R800CE	
650		IPA60R650CE	IPD60R650CE	
460		IPA60R460CE	IPD60R460CE	
400		IPA60R400CE	IPD60R400CE	

650 V	$R_{DS(ON)}$ [mΩ]	TO-220 FullPAK	TO-252 DPAK	TO-251 IPAK
	1500			
1000				IPS65R1K0CE
650		IPA65R650CE	IPD65R650CE	

建议用于采用LLC拓扑结构的中低功率应用

500 V	$R_{DS(ON)}$ [mΩ]	TO-220 FullPAK	TO-252 DPAK	TO-220	TO-247	TO-251 IPAK
	3000					
2000						IPU50R2K0CE
1400						IPU50R1K4CE
950		IPA50R950CE	IPD50R950CE			IPU50R950CE
800		IPA50R800CE	IPD50R800CE			
650		IPA50R650CE	IPD50R650CE			
500		IPA50R500CE	IPD50R500CE	IPP50R500CE		
380		IPA50R380CE	IPD50R380CE	IPP50R380CE		
280		IPA50R280CE	IPD50R280CE	IPP50R280CE	IPW50R280CE	
190		IPA50R190CE		IPP50R190CE	IPW50R190CE	

建议用于QR反激式拓扑

800 V	$R_{DS(ON)}$ [mΩ]	TO-220 FullPAK	TO-252 DPAK	TO-251 IPAK
	2800			IPD80R2K8CE
1400		IPA80R1K4CE	IPD80R1K4CE	IPU80R1K4CE
1000		IPA80R1K0CE	IPD80R1K0CE	IPU80R1K0CE
650		IPA80R650CE		
460		IPA80R460CE		
310		IPA80R310CE		

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