

Generate a lower power variant of Design Bandgap in production - UK Design Company

In addition to minimizing current consumption, Amalia found a solution that pushed PSRR into spec.

Specification	Requirement	Customer Design	Thalia Solution
Current consumption	<100 μA	54.5 μA	36.56 μA
Component Area	<100000 μm^2	72573 μm^2	59013 μm^2
PSRR at 10MHz	<-50 db	-39.7 db	-52.7 db
Output Voltage Reference	~0.7 V	0.701 V	0.706 V
Voltage Referene - Maximum	<0.735 V	0.701 V	0.728 V
Voltage Reference - Minimum	>0.665 V	0.700 V	0.693 V
Solutions Evaluated*	-	-	384**

*Average number of simulated solutions required to reach the first optimised solution

**Simulation time for each solution is apprximety 2 and a half minutes. The total time using four simulators in parallel is 4 hours