

Power supply and current consumption

EA DOG Series

Ambient temperature 25°C, 5x1M pull up for not connected pins

These are typical values, evaluated with 1 sample. This is no specification, we do not guarantee anything with that.

June, 24th, 2009

EA DOGS102W-6



VDD=3,3V	Empty	Demo Picture	Chess Pattern
4xBoost	232µA	262µA	353µA
IVDD	Contrast set to #3F: 11,7V		

VDD=2,5V	Empty	Demo Picture	Chess Pattern
4xBoost	213µA	246µA	299µA
IVDD	Contrast set to #3F: 11,6V		

EA DOGM132W-5



VDD=3,3V	Empty	Demo Picture	Chess Pattern
4xBoost	12,4V	12,2V	11,3V
VOUT	7,6V	7,6V	7,6V
IVDD	126µA	151µA	234µA

VDD=2,7V	Empty	Demo Picture	Chess Pattern
4xBoost	10,26V	9,83V	9,3V
V0	7,58V	7,58V	7,58V
IVDD	125µA	145µA	233µA

VDD=3,3V	Empty	Demo Picture	Chess Pattern
5xBoost	9,43V	9,3V	8,87V
VOUT	7,58V	7,58V	7,58V
IVDD	96µA	112µA	179µA

VDD=2,7V	Empty	Demo Picture	Chess Pattern
5xBoost	7,76V	7,6V	7,26V
VOUT	7,56V	7,56V	7,25V
IVDD	96µA	112µA	167µA

EA DOGM128E-6



VDD=3,3V	Empty	Demo Picture	Chess Pattern
4xBoost	12,2V	11,9V	10,2V
VOUT	10,2V	10,2V	10,18V
IVDD	202µA	273µA	615µA

VDD=2,7V	Empty	Demo Picture	Chess Pattern
4xBoost	9,9V	9,6V	8,6V, no more contrast
VOUT	9,9V	9,6V	8,6V, no more contrast
IVDD	194µA	240µA	390µA, no more contrast

EA DOGL128W-6

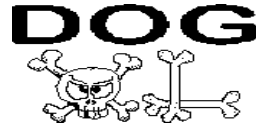


VDD=3,3V	Empty	Demo Picture	Chess Pattern
4xBoost	12,21V	11,63V	9,51V
VOUT	9,67V	9,67V	9,49V
IVDD	206µA	317µA	760µA

VDD=2,7V	Empty	Demo Picture	Chess Pattern
4xBoost	9,82V	9,39V	8,23V, no more contrast
VOUT	9,67V	9,39V	8,22V, no more contrast
IVDD	205µA	287µA	534µA, no more contrast

VDD=3,0V	Empty	Demo Picture	Chess Pattern
4xBoost	11,10V	10,51V	9,03V, pale contrast
VOUT	9,70V	9,70V	9,02V, pale contrast
IVDD	206µA	322µA	615µA, pale contrast

EA DOGL160W-7



VDD=3,3V	Empty	Demo Picture	Chess Pattern
8xBoost	13,9V	13,8V	13,7V
VLCD	955µA	696µA	730µA
IVDD	Contrast set to #FF: 17,2V 1450µA		

VDD=2,6V	Empty	Demo Picture	Chess Pattern
8xBoost	13,5V	13,5V	13,5V
VLCD	590µA	720µA	775µA
IVDD	Contrast set to #FF: 16,0V 1620µA		

VDD=3,0V	Empty	Demo Picture	Chess Pattern
8xBoost	13,8V	13,8V	13,5V
VLCD	580µA	690µA	705µA
IVDD	Contrast set to #FF: 17,3V 1630µA		

VDD=3,3V	VBO+ to VBO- (Pin 18 to Pin 21)	VB1+ to VB1- (Pin 19 to Pin 20)	VLCD to GND (Pin 17 to GND)
8xBoost	1,13V	1,13 V	13,74V

EA DOGM240W-6



VDD=3,3V	Empty	Demo Picture	Chess Pattern
4xBoost	14,2V	14,2V	14,2V
VOUT	470µA	550µA	560µA
IVDD			

VDD=2,7V	Empty	Demo Picture	Chess Pattern
4xBoost	14,2V	14,2V	14,2V
VOUT	470µA	550µA	560µA
IVDD			

EA DOGL240W-7



VDD=3,3V	Empty	Demo Picture	Chess Pattern
4xBoost	14,4V	14,4V	14,4V
VOUT	790µA	930µA	960µA
IVDD			

VDD=2,7V	Empty	Demo Picture	Chess Pattern
4xBoost	14,4V	14,4V	14,4V
VOUT	850µA	1050µA	1050µA
IVDD			