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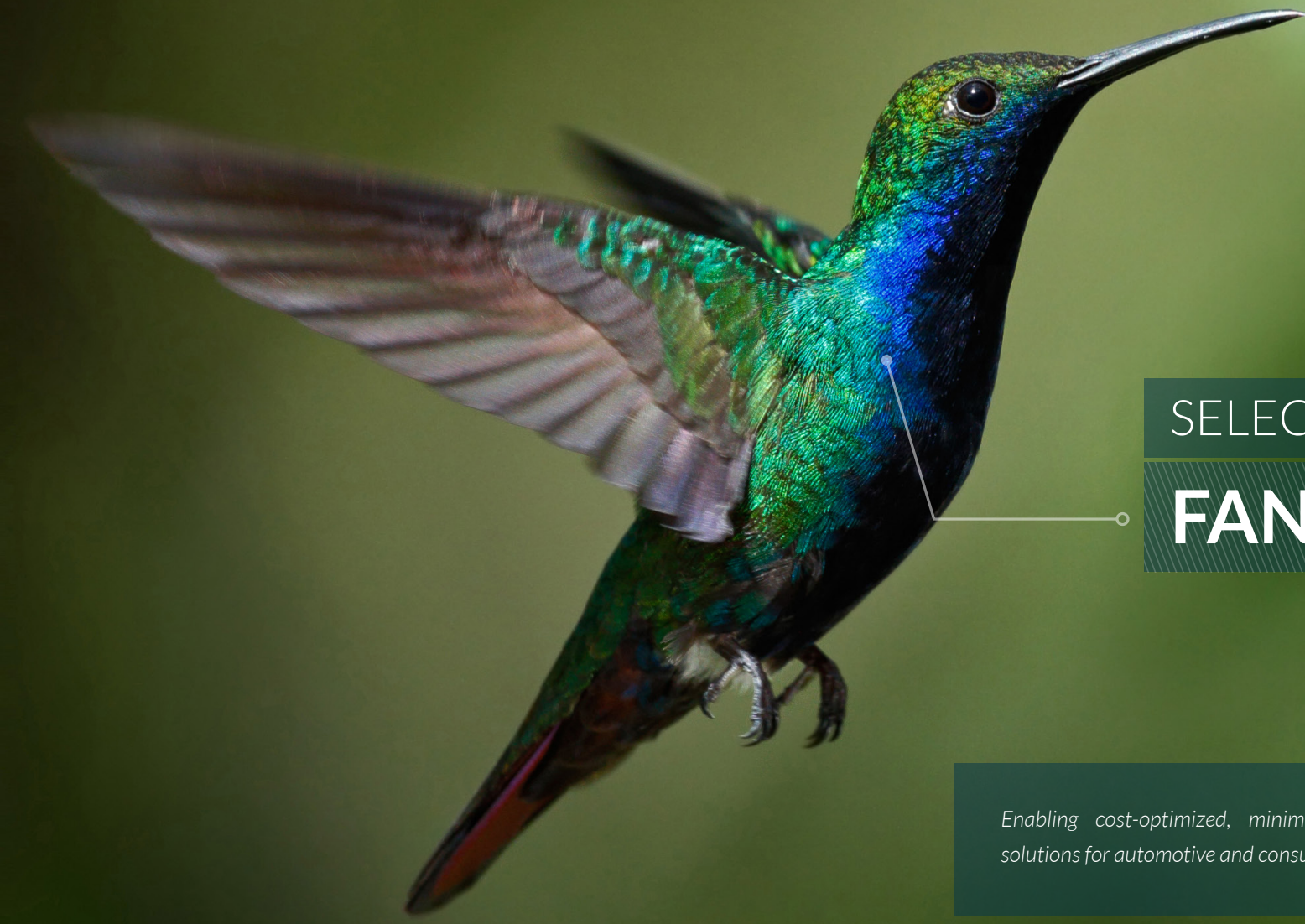
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## SELECTION GUIDE FANDRIVERS

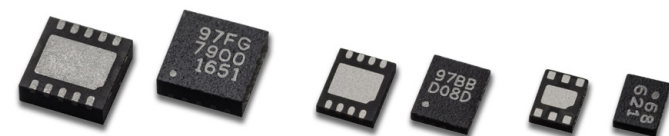
Enabling cost-optimized, minimum-size and whisper-silent cooling solutions for automotive and consumer applications.

The hummingbird's beating wings flap at extremely high frequencies, typically around 50 times per second. This allows it to fly at speeds exceeding 15 m/s, to fly backwards or to seemingly be suspended in the air in perfect balance. What better animal to reflect the motor/control driver and actuator capacities?



Fandriers																																				
Type	Part No.	order code	Status	Speed control		RDSon	VDD		Ipeak		Imotor						FG	RD	PPAP	Integrated protections		EOS/ESD	Noise/Efficiency		Package											
				Open loop			Ohm (typ)	min	max	A	Current limit	mA	250	350	450	500				600	700		LRP	RVProt	HBM	Start up	Soft-Switching	SIP			SO			Exposed pad DFN (LD/LW)		
				MINSP/FANoff	Transfer Curve																							UA	VK	VA	SO8 (DC)	SO8 (ZC)	SOT-(ZE)	# pins	size	height
2-coil	S79	EUAAAA000-BU	prod	100%	-	2	2.5V	18V	500mA	-									✓	✓	4kV			✓												
2-coil	US62	EVKAAA000-BU	prod	100%	-	2.5	3V	18V	700mA	-						✓			✓	✓	2kV			✓												
2-coil	US63	EVKAAA000-BU	prod	100%	-	2.5	3V	18V	700mA	-						✓			✓	✓	2kV			✓												
2-coil	US890	EVKAAA000-BU	prod	100%	-	1.0	2.5V	18V	1200mA	-						✓			✓	✓	4kV			✓												
2-coil	US891	EVKAAA000-BU	prod	100%	-	1.0	2.5V	18V	1200mA	-						✓			✓	✓	4kV			✓												
2-coil	US90A	EVA AAA000-BU	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV				✓											
2-coil	US90A	EVK AAA000-BU	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV			✓												
2-coil	US90A	EDC AAA000-RE	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV					✓										
2-coil	US90A	EZE AAA000-RE	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV								✓							
2-coil	US91A	EVA AAA000-BU	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV					✓										
2-coil	US91A	EVK AAA000-BU	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV			✓												
2-coil	US91A	EDC AAA000-RE	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV					✓										
2-coil	US91A	EZE AAA000-RE	prod	100%	-	2.5	4.5V	30V	500mA	-						✓			✓	✓	4kV								✓							
2-coil	MLX90285	LVK AAA000-BU	prod	100%	-	2.0	5V	30V	700mA	-						✓			✓	✓	4kV				✓											
2-coil	MLX90285	LDC AAA000-RE	prod*	100%	-	2.0	5V	30V	700mA	-						✓		✓	✓	✓	4kV					✓										
2-coil	MLX90285	LVK ABA000-BU	prod	100%	-	2.0	5V	30V	700mA	-						✓			✓	✓	4kV				✓											
2-coil	MLX90285	LDC ABA000-RE	prod*	100%	-	2.0	5V	30V	700mA	-						✓		✓	✓	✓	4kV					✓										
1-coil	US168	ELD AAA000-RE	prod	100%	-	2.2	1.8V	6.5V	500mA	-						✓			✓		1.5kV								6	1.5x2mm	0.4mm					
1-coil	US168	KLD AAA000-RE	prod*	100%	-	2.2	1.8V	6.5V	500mA	-						✓		✓	✓		1.5kV								6	1.5x2mm	0.4mm					
1-coil	US169	ELD ABA000-RE	prod	100%	-	2.2	1.8V	6.5V	500mA	-						✓			✓		1.5kV								6	1.5x2mm	0.4mm					
1-coil	MLX90287	KZC AAA000-RX	prod	MINSP	10	2.3	4.5V	18V	1.2A	-						✓			✓	✓	6kV	30%	SS													
1-coil	MLX90287	LZC AAA000-RE	prod*	MINSP	10	2.3	4.5V	18V	1.2A	-						✓		✓	✓	✓	6kV	30%	SS													
1-coil	MLX90287	LDC AAA000-RE	prod*	MINSP	10	2.3	4.5V	18V	1.2A	-						✓		✓	✓	✓	6kV	30%	SS			✓										
1-coil	MLX90287	LLD AAA000-RE	prod*	MINSP	10	2.3	4.5V	18V	1.2A	-						✓		✓	✓	✓	6kV	30%	SS						10	3x3mm	1mm					
1-coil	MLX90297	KZC-AAF108-RX	prod	MINSP	10/20/25/30	1.5	3.0V	18V	CL	800mA						✓			✓		9kV	50%	SFS					✓								
1-coil	MLX90297	KLW-AAF109-RE	prod	MINSP	10/20/25/30	1.5	3.0V	18V	CL	960mA						✓			✓		9kV	50%	SFS						10	3x3mm	1mm					
1-coil	MLX90297	LLW-AAF108-RE	prod*	MINSP	10/20/25/30	1.5	3.3V	18V	CL	800mA						✓		✓	✓		9kV	50%	SFS						10	3x3mm	1mm					
1-coil	MLX90297	LLW-AAF206-RE	prod*	MINSP	10/20/25/30	1.5	3.3V	18V	CL	660mA						✓		✓	✓		9kV	50%	FF						10	3x3mm	1mm					
1-coil	MLX90297	KZC-ABF108-RX	prod	MINSP	10/20/25/30	1.5	3.0V	18V	CL	800mA						✓			✓		9kV	50%	SFS				✓									
1-coil	MLX90297	KLW-ABF109-RE	prod	MINSP	10/20/25/30	1.5	3.0V	18V	CL	960mA						✓			✓		9kV	50%	SFS						10	3x3mm	1mm					
1-coil	MLX90297	LLW-ABF108-RE	prod*	MINSP	10/20/25/30	1.5	3.3V	18V	CL	800mA						✓		✓	✓		9kV	50%	SFS						10	3x3mm	1mm					
1-coil	MLX90297	LLW-ABF206-RE	prod*	MINSP	10/20/25/30	1.5	3.3V	18V	CL	660mA						✓		✓	✓		9kV	50%	FF						10	3x3mm	1mm					
1-coil	MLX90297	KZC-VAF108-RX	prod	FANOFF	10/20/30/40	1.5	3.0V	18V	CL	800mA						✓			✓		9kV	50%	SFS				✓									
1-coil	MLX90297	KLD-VAF109-RX	planned	FANOFF	10/20/30/40	1.5	3.0V	18V	CL	960mA						✓			✓		9kV	50%	SFS				✓									
1-coil	MLX90297	KLD-SAF108-RE	prod	MINSP	10/20/25/30	2.4	3.0V	18V	CL	800mA						✓			✓		9kV	50%	SFS						8	2.5x2mm	0.4mm					
1-coil	MLX90297	KLD-SAF308-RE	prod	MINSP	10/20/25/30	2.4	3.0V	18V	CL	800mA						✓			✓		9kV	50%	SS						8	2.5x2mm	0.4mm					
1-coil	MLX90297	LLD-SAF108-RE	prod*	MINSP	10/20/25/30	2.4	3.3V	18V	CL	800mA						✓		✓	✓		9kV	50%	SFS						8	2.5x2mm	0.4mm					

\* Automotive qualified



**Explanation**

Rvprot: Reverse Polarity Voltage protection for 2-coil fandriers based on No-VDD patent.  
 Soft Switching: SS: Slope-Slope, FF: Flat Flat (low EMI), SFS: Slope-Flat-Slope (reduced reverse current).  
 VDD min: minimum guarantee operating voltage over temperature, supply voltage and process variation. Typically fandrier operation is 0.2V below minimum guaranteed voltage.  
 Ipeak: CL indicates that the IC is protected from excessive peak currents by the Current Limit.

SO8 (ZC) and SOT (ZE) package variants are straight leads options.  
 SO8 (DC) and SOT (SE) package variants are bent leads options.  
 DFN xLD: non wettable flanks, xLW: wettable flanks.

