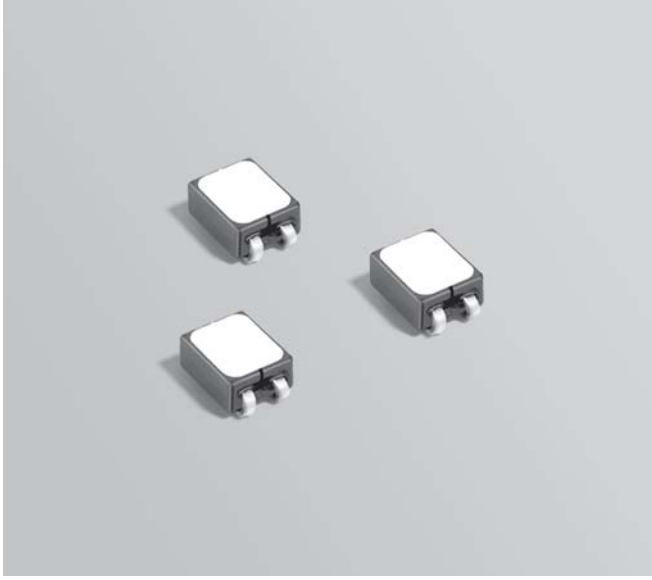
NEW!

Power Inductor – DA2069-AL

For Enpirion Regulator Devices



- Developed specially for use in the first stage filter for Enpirion regulator devices
- Designed for high-speed, high current applications

Core material Ferrite

Terminations RoHS compliant matte tin over nickel over copper. Other terminations available at additional cost.

Weight 168 mg

Ambient temperature –40°C to +85°C with Irms current, +85°C to +125°C with derated current

Storage temperature Component: –40°C to +85°C. Packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Mean Time Between Failures (MTBF) 26,315,789 hours

Packaging 750 per 7″reel; 3000 per 13″ reel; Plastic tape: 16 mm wide, 0.35 mm thick, 8 mm pocket spacing, 2.92 mm pocket depth

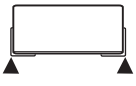
PCB washing Only pure water or alcohol recommended

	Leads connected in parallel						Leads connected in series					
					Irms (A)[7]						Irms (A)[7]	
Part number[1]	Inductance[2,3] ±10% (nH)	DCR max[4] (mOhms)	SRF typ[5] (MHz)	Isat[6] (A)	20°C rise	40°C rise	Inductance[3] ±10% (nH)	DCR max[8] (mOhms)	SRF typ[5] (GHz)	Isat[6] (A)	20°C rise	40°C rise
DA2069-AL_	25.0	0.375	5.0	33	10.6	17.6	100	1.5	2.32	24	5.3	8.8

1. When ordering, please specify **packaging** code:

   DA2069-AL C

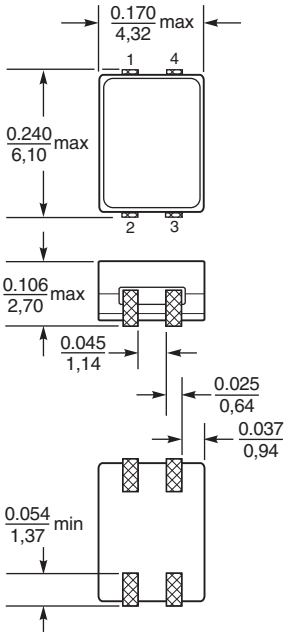
   Packaging: **C** = 7″ machine-ready reel. EIA-481 embossed plastic tape (750 per full reel).
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter C instead.
   D = 13″ machine-ready reel. EIA-481 embossed plastic tape (3000 per full reel). Factory order only, not stocked.
2. Inductance shown for coupled inductor and for two inductors connected in parallel.
3. Inductance is measured at 500 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.
4. DCR is for both windings connected in parallel, measured at points indicated in the diagram. DCR for each winding is twice the value.



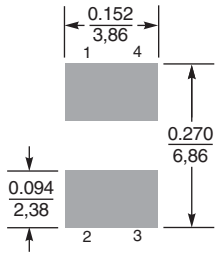
▲Points used for measuring DCR

5. SRF measured using an Agilent/HP 8753ES network analyzer or equivalent.
6. DC current at which the inductance drops 20% (typ) from its value without current.
7. Current that causes a 40°C temperature rise from 25°C ambient.
8. DCR is for both windings, measured at points indicated in the diagram.
9. Electrical specifications at 25°C.

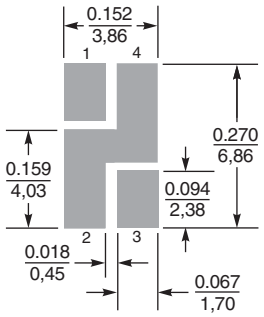
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.



Recommended Land Patterns



Windings connected in parallel



Windings connected in series

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