

SQR8042CA

AEC-Q200

2in1



■ Features

- Small size and high efficiency are realized with the 2 in 1 structure, developed specifically for the SEPIC and ZETA converter.
- Magnetically shielded structure, high current.
- Four terminals structure for resisting to mechanical shock and vibration.
- AEC-Q200 compliant
- Operating temperature : -40°C~+125°C(The self-heating is included)

Magnetic structure :

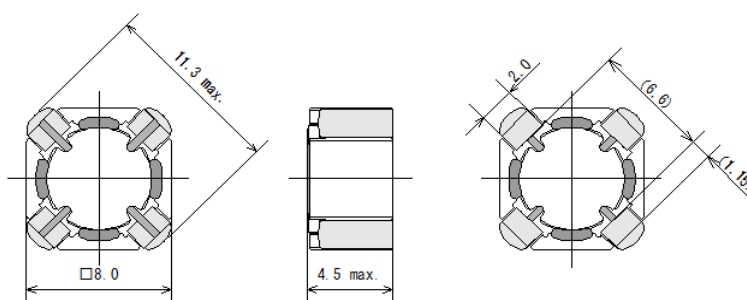


Weight : 0.9 g

■ Applications

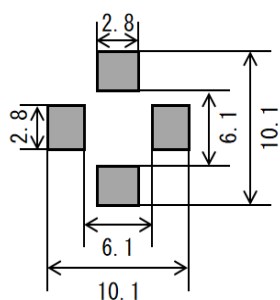
- Audio Visual/Camera
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
<https://www.sagami-elec.co.jp>

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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR max. (Ω)		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)	
		④-③	①-②		One winding	Series connection
SQR8042CA-1R3A	1.3 $\pm$ 35%	0.0170	0.0170	6.30	3.85	3.15
SQR8042CA-1R8A	1.8 $\pm$ 35%	0.0240	0.0240	5.10	3.30	2.65
SQR8042CA-2R4A	2.4 $\pm$ 35%	0.0310	0.0310	4.35	2.80	2.35
SQR8042CA-3R3A	3.3 $\pm$ 35%	0.0400	0.0400	3.85	2.60	2.05
SQR8042CA-3R9A	3.9 $\pm$ 35%	0.0460	0.0460	3.40	2.50	1.95
SQR8042CA-5R1N	5.1 $\pm$ 30%	0.0590	0.0590	3.05	2.10	1.70
SQR8042CA-6R2N	6.2 $\pm$ 30%	0.0690	0.0690	2.80	1.90	1.50
SQR8042CA-6R8N	6.8 $\pm$ 30%	0.0800	0.0800	2.55	1.80	1.40
SQR8042CA-8R2N	8.2 $\pm$ 30%	0.0950	0.0950	2.35	1.65	1.30
SQR8042CA-100M	10 $\pm$ 20%	0.110	0.110	2.20	1.50	1.20
SQR8042CA-120M	12 $\pm$ 20%	0.140	0.140	1.90	1.40	1.10
SQR8042CA-150M	15 $\pm$ 20%	0.170	0.170	1.70	1.20	0.950
SQR8042CA-180M	18 $\pm$ 20%	0.190	0.190	1.60	1.15	0.900
SQR8042CA-220M	22 $\pm$ 20%	0.230	0.230	1.45	1.05	0.800
SQR8042CA-270M	27 $\pm$ 20%	0.280	0.280	1.30	0.950	0.730
SQR8042CA-330M	33 $\pm$ 20%	0.360	0.360	1.15	0.850	0.650
SQR8042CA-390M	39 $\pm$ 20%	0.420	0.420	1.05	0.750	0.600
SQR8042CA-470M	47 $\pm$ 20%	0.510	0.510	0.950	0.700	0.550

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease within 30% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is within 40°C



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