

SQR8042C

AEC-Q200

2in1



■ Features

- Small size and high efficiency are realized with the 2 in 1 structure, developed specifically for the SEPIC and ZETA c
- 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 :

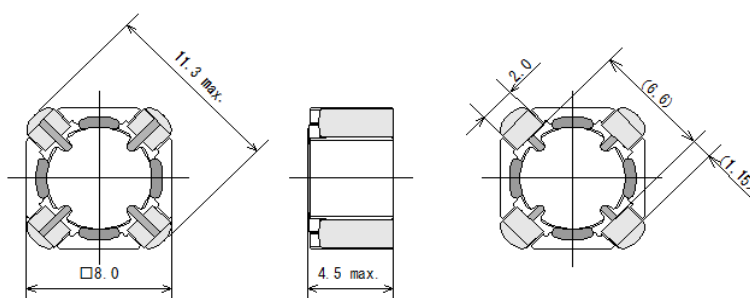


Weight : 0.9 g

■ Applications

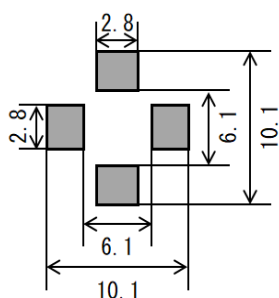
- Audio Visual/Camera
- Automotive/LED Headlights, Car Audio, Car Navigation, ECU
- Others/Power Supply, FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR $\pm 30\%$ (Ω)		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)	
		④-③	②-①		One winding	Series connection
SQR8042C-1R0N	1 $\pm 30\%$	0.0100	0.0120	6.30	4.25	3.30
SQR8042C-1R5N	1.5 $\pm 30\%$	0.0140	0.0170	5.10	3.60	2.80
SQR8042C-2R2N	2.2 $\pm 30\%$	0.0180	0.0220	4.35	3.05	2.45
SQR8042C-2R7N	2.7 $\pm 30\%$	0.0230	0.0290	3.85	2.75	2.10
SQR8042C-3R9N	3.9 $\pm 30\%$	0.0260	0.0330	3.40	2.50	1.85
SQR8042C-4R7N	4.7 $\pm 30\%$	0.0350	0.0430	3.05	2.20	1.70
SQR8042C-5R6N	5.6 $\pm 30\%$	0.0400	0.0500	2.80	2.05	1.55
SQR8042C-6R8N	6.8 $\pm 30\%$	0.0470	0.0590	2.55	1.95	1.45
SQR8042C-8R2N	8.2 $\pm 30\%$	0.0560	0.0690	2.35	1.70	1.35
SQR8042C-100M	10 $\pm 20\%$	0.0600	0.0760	2.20	1.55	1.20
SQR8042C-120M	12 $\pm 20\%$	0.0750	0.0960	1.90	1.45	1.10
SQR8042C-150M	15 $\pm 20\%$	0.0940	0.120	1.70	1.30	1.00
SQR8042C-180M	18 $\pm 20\%$	0.110	0.140	1.60	1.20	0.900
SQR8042C-220M	22 $\pm 20\%$	0.140	0.170	1.45	1.05	0.800
SQR8042C-270M	27 $\pm 20\%$	0.160	0.210	1.30	0.950	0.730
SQR8042C-330M	33 $\pm 20\%$	0.210	0.270	1.15	0.850	0.650
SQR8042C-390M	39 $\pm 20\%$	0.240	0.310	1.05	0.750	0.600
SQR8042C-470M	47 $\pm 20\%$	0.310	0.390	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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