

SQR1042C

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 :

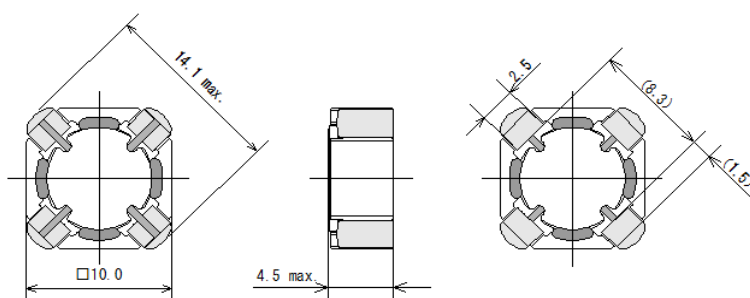


Weight : 1.4 g

■ Applications

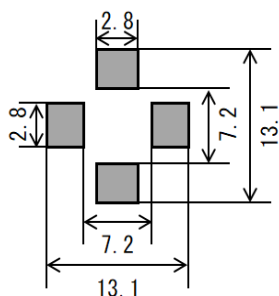
- Audio Visual/Camera
- Automotive/LED Headlights, Car Audio, Car Navigation, ECU
- Others/Power Supply, FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
Engineering Dept. TEL : +81 45 521 4543

△ The contents of this catalogue are subject to change without notice.

■ 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 connectio
SQR1042C-1R5N	1.5 $\pm 30\%$	0.00900	0.0110	8.15	4.30	3.30
SQR1042C-2R2N	2.2 $\pm 30\%$	0.0120	0.0150	6.70	3.75	2.85
SQR1042C-3R0N	3 $\pm 30\%$	0.0160	0.0200	5.85	3.35	2.50
SQR1042C-3R9N	3.9 $\pm 30\%$	0.0200	0.0260	5.05	2.85	2.15
SQR1042C-5R1N	5.1 $\pm 30\%$	0.0270	0.0340	4.45	2.50	1.90
SQR1042C-6R2N	6.2 $\pm 30\%$	0.0300	0.0390	4.00	2.35	1.70
SQR1042C-7R5N	7.5 $\pm 30\%$	0.0420	0.0520	3.55	2.00	1.50
SQR1042C-9R1N	9.1 $\pm 30\%$	0.0460	0.0580	3.35	1.90	1.40
SQR1042C-100M	10 $\pm 20\%$	0.0500	0.0640	3.00	1.80	1.30
SQR1042C-120M	12 $\pm 20\%$	0.0620	0.0790	2.75	1.60	1.20
SQR1042C-150M	15 $\pm 20\%$	0.0720	0.0880	2.55	1.50	1.10
SQR1042C-180M	18 $\pm 20\%$	0.0960	0.120	2.30	1.35	1.00
SQR1042C-220M	22 $\pm 20\%$	0.120	0.150	2.00	1.15	0.900
SQR1042C-270M	27 $\pm 20\%$	0.140	0.180	1.85	1.05	0.800
SQR1042C-330M	33 $\pm 20\%$	0.170	0.220	1.60	0.950	0.730
SQR1042C-390M	39 $\pm 20\%$	0.210	0.270	1.50	0.850	0.650
SQR1042C-470M	47 $\pm 20\%$	0.250	0.310	1.40	0.800	0.600
SQR1042C-560M	56 $\pm 20\%$	0.310	0.400	1.25	0.700	0.550
SQR1042C-680M	68 $\pm 20\%$	0.380	0.480	1.15	0.650	0.490
SQR1042C-820M	82 $\pm 20\%$	0.420	0.540	1.05	0.630	0.460
SQR1042C-101M	100 $\pm 20\%$	0.530	0.670	0.950	0.550	0.410

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



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

10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
Engineering Dept. TEL : +81 45 521 4543

⚠ The contents of this catalogue are subject to change without notice.