

SQR1277CA

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 :

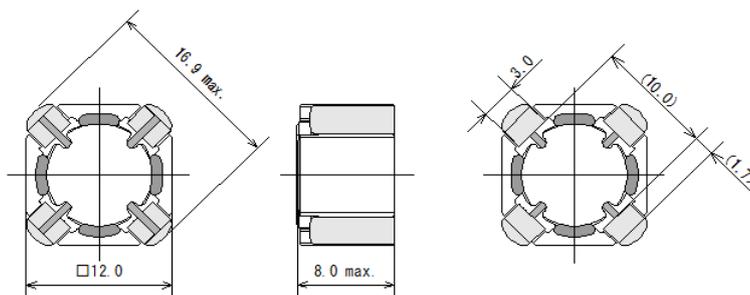


Weight : 3.9 g

■ Applications

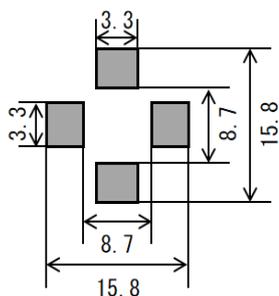
- Automotive/LED Headlights, Car Audio, Car Navigation, ECU
- Others/Energy, Power Supply, FA, Medical

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
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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
SQR1277CA-2R2A	2.2 \pm 35%	0.0170	0.0170	13.6	4.20	3.35
SQR1277CA-3R0A	3 \pm 35%	0.0210	0.0210	11.2	3.85	3.10
SQR1277CA-3R9A	3.9 \pm 35%	0.0230	0.0180	9.15	3.75	2.95
SQR1277CA-5R1A	5.1 \pm 35%	0.0270	0.0210	8.35	3.40	2.75
SQR1277CA-6R8A	6.8 \pm 35%	0.0350	0.0270	7.45	3.05	2.40
SQR1277CA-8R2N	8.2 \pm 30%	0.0390	0.0300	7.00	2.90	2.25
SQR1277CA-100M	10 \pm 20%	0.0440	0.0340	6.35	2.75	2.20
SQR1277CA-120M	12 \pm 20%	0.0520	0.0400	5.85	2.45	1.95
SQR1277CA-150M	15 \pm 20%	0.0710	0.0540	5.15	2.15	1.70
SQR1277CA-180M	18 \pm 20%	0.0830	0.0640	4.80	2.00	1.55
SQR1277CA-220M	22 \pm 20%	0.110	0.0800	4.35	1.75	1.35
SQR1277CA-270M	27 \pm 20%	0.120	0.0910	3.85	1.60	1.25
SQR1277CA-330M	33 \pm 20%	0.140	0.110	3.35	1.55	1.15
SQR1277CA-390M	39 \pm 20%	0.180	0.140	3.05	1.35	1.03
SQR1277CA-470M	47 \pm 20%	0.200	0.150	2.90	1.30	0.980
SQR1277CA-560M	56 \pm 20%	0.250	0.190	2.70	1.15	0.870
SQR1277CA-680M	68 \pm 20%	0.300	0.230	2.35	1.05	0.790
SQR1277CA-820M	82 \pm 20%	0.0350	0.270	2.10	0.960	0.720
SQR1277CA-101M	100 \pm 20%	0.420	0.330	1.95	0.880	0.660
SQR1277CA-121M	120 \pm 20%	0.510	0.390	1.80	0.800	0.600
SQR1277CA-151M	150 \pm 20%	0.630	0.490	1.55	0.720	0.530
SQR1277CA-181M	180 \pm 20%	0.750	0.580	1.45	0.680	0.490

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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