

SQR1277C

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 :

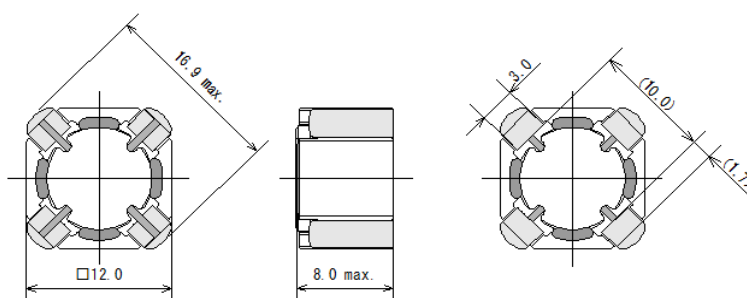


Weight : 3.9 g

■ Applications

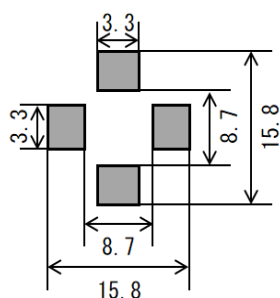
- Audio Visual/Camera
- Automotive/LED Headlights, Car Audio, Car Navigation, ECU
- Others/Power Supply, FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
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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 connectio
SQR1277C-2R0N	2 $\pm 30\%$	0.0110	0.0120	14.7	4.90	3.65
SQR1277C-2R7N	2.7 $\pm 30\%$	0.0130	0.0140	11.9	4.40	3.30
SQR1277C-3R9N	3.9 $\pm 30\%$	0.0150	0.0170	10.0	4.05	3.05
SQR1277C-5R1N	5.1 $\pm 30\%$	0.0170	0.0200	9.00	3.70	2.85
SQR1277C-6R8N	6.8 $\pm 30\%$	0.0220	0.0250	7.90	3.25	2.50
SQR1277C-8R2N	8.2 $\pm 30\%$	0.0250	0.0280	6.95	3.05	2.35
SQR1277C-100M	10 $\pm 20\%$	0.0270	0.0320	6.30	2.90	2.25
SQR1277C-120M	12 $\pm 20\%$	0.0320	0.0370	5.75	2.65	2.05
SQR1277C-150M	15 $\pm 20\%$	0.0450	0.0520	5.00	2.25	1.75
SQR1277C-180M	18 $\pm 20\%$	0.0530	0.0610	4.60	2.10	1.58
SQR1277C-220M	22 $\pm 20\%$	0.0670	0.0760	4.35	1.85	1.40
SQR1277C-270M	27 $\pm 20\%$	0.0760	0.0870	3.85	1.70	1.30
SQR1277C-330M	33 $\pm 20\%$	0.0950	0.110	3.35	1.55	1.15
SQR1277C-390M	39 $\pm 20\%$	0.120	0.140	3.05	1.35	1.03
SQR1277C-470M	47 $\pm 20\%$	0.130	0.150	2.90	1.30	0.980
SQR1277C-560M	56 $\pm 20\%$	0.160	0.190	2.70	1.15	0.870
SQR1277C-680M	68 $\pm 20\%$	0.200	0.230	2.35	1.05	0.790
SQR1277C-820M	82 $\pm 20\%$	0.230	0.270	2.10	0.960	0.720
SQR1277C-101M	100 $\pm 20\%$	0.280	0.320	1.95	0.880	0.660
SQR1277C-121M	120 $\pm 20\%$	0.340	0.390	1.80	0.800	0.600
SQR1277C-151M	150 $\pm 20\%$	0.420	0.480	1.55	0.720	0.530
SQR1277C-181M	180 $\pm 20\%$	0.500	0.580	1.45	0.680	0.490
SQR1277C-221M	220 $\pm 20\%$	0.620	0.720	1.35	0.580	0.430
SQR1277C-271M	270 $\pm 20\%$	0.750	0.870	1.15	0.530	0.390
SQR1277C-331M	330 $\pm 20\%$	0.950	1.10	1.10	0.450	0.340
SQR1277C-391M	390 $\pm 20\%$	1.14	1.32	0.950	0.430	0.310
SQR1277C-471M	470 $\pm 20\%$	1.26	1.48	0.850	0.400	0.300
SQR1277C-561M	560 $\pm 20\%$	1.57	1.83	0.800	0.360	0.270

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℃



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