

# SGQR1065CA

New Products

RoHS

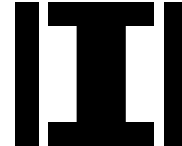
AEC-Q200



## ■ Features

- 2in1 structure reduces installation time and ground area
- Small and high efficiency are realized , developed specifically for the SEPIC/ZETA converter.
- Magnetically shielded structure, high current.
- Four terminals structure for resisting to mechanical shock and vibration.

## ■ Magnetic structure



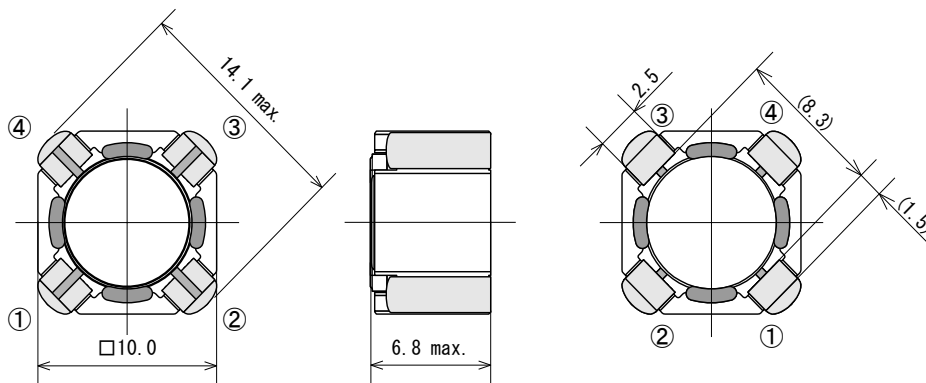
Operating Temperature Range : -40 °C~ +125 °C(include self-heating)

Weight : 2.3 g

## ■ Application

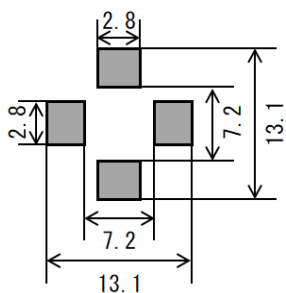
- AudioVisual
- Car Audio
- Car Navigation
- ECU
- LED Headlights
- Power Supply
- FA

## ■ Dimensions

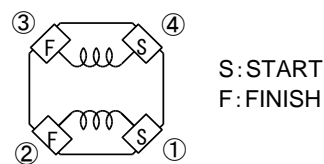


(Unit : mm)

## ■ Recommended Land Pattern



## ■ CONNECTION(BOTTOM VIEW)



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  ( $\mu$ H)	DCR Resistance  ( $\Omega$ ) max	Rated current			
			DC saturation allowable current (A)		Teperature rise allowable current (A)	
			Spec.	Typical	SERIES WINDING	ONE WINDING
SGQR1065CA-1R8A	1.8 $\pm$ 35%	0.015	10.8	15.4	3.40	4.80
SGQR1065CA-2R4A	2.4 $\pm$ 35%	0.017	9.30	13.0	3.10	4.40
SGQR1065CA-3R3A	3.3 $\pm$ 35%	0.022	8.00	11.7	2.70	3.70
SGQR1065CA-4R3A	4.3 $\pm$ 35%	0.028	7.10	10.3	2.40	3.30
SGQR1065CA-5R1A	5.1 $\pm$ 35%	0.037	6.20	9.10	2.10	2.90
SGQR1065CA-6R2N	6.2 $\pm$ 30%	0.041	5.70	8.30	1.95	2.70
SGQR1065CA-7R5N	7.5 $\pm$ 30%	0.050	5.10	7.60	1.80	2.40
SGQR1065CA-9R1N	9.1 $\pm$ 30%	0.062	4.75	6.90	1.60	2.25
SGQR1065CA-100M	10 $\pm$ 20%	0.069	4.40	6.50	1.50	2.05
SGQR1065CA-120M	12 $\pm$ 20%	0.076	4.10	6.00	1.40	1.95
SGQR1065CA-150M	15 $\pm$ 20%	0.098	3.65	5.45	1.30	1.75
SGQR1065CA-180M	18 $\pm$ 20%	0.12	3.35	5.10	1.20	1.65
SGQR1065CA-220M	22 $\pm$ 20%	0.13	3.10	4.55	1.10	1.50
SGQR1065CA-270M	27 $\pm$ 20%	0.17	2.80	4.25	1.00	1.35
SGQR1065CA-330M	33 $\pm$ 20%	0.20	2.50	3.65	0.93	1.25
SGQR1065CA-390M	39 $\pm$ 20%	0.23	2.35	3.35	0.85	1.13
SGQR1065CA-470M	47 $\pm$ 20%	0.31	2.00	3.10	0.75	0.98
SGQR1065CA-560M	56 $\pm$ 20%	0.36	1.90	2.80	0.67	0.90
SGQR1065CA-680M	68 $\pm$ 20%	0.43	1.75	2.60	0.62	0.82
SGQR1065CA-820M	82 $\pm$ 20%	0.55	1.60	2.30	0.55	0.72
SGQR1065CA-101M	100 $\pm$ 20%	0.65	1.45	2.15	0.49	0.65
SGQR1065CA-121M	120 $\pm$ 20%	0.73	1.30	1.95	0.47	0.62
SGQR1065CA-151M	150 $\pm$ 20%	0.91	1.15	1.75	0.41	0.55
SGQR1065CA-181M	180 $\pm$ 20%	1.1	1.05	1.55	0.37	0.50
SGQR1065CA-221M	220 $\pm$ 20%	1.4	0.95	1.40	0.33	0.44
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

- Inductance Measuring Condition : 100kHz,1V
- Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.
  1. DC saturation allowable current (Spec.) : value of inductance decrease within 30%.  
DC saturation allowable current (Typical) : value of inductance decrease 30%.
  2. Temperature rise allowable current : A rise in temperature of core surface is within 40°C.
    - ※1: ④-① (③-② short)
    - ※2: ④-③ or ①-②



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.