

SMD Hybrid Power Inductor Series

HER Series

Features

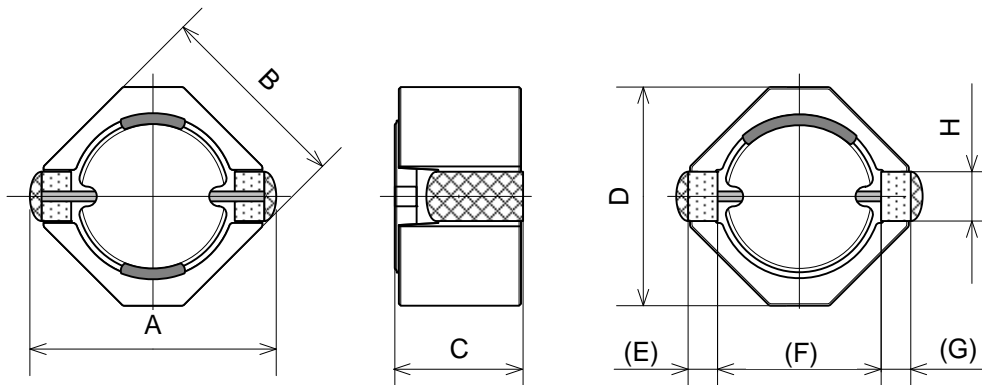
- Higher allowable current characteristics.
- Saturation allowable current increased 40% from CER type (Our current product).
- 10mm size and 8mm size meets the requirements of AEC-Q200.
- Operating temperature range : -40 to +125°C (Include self temperature rise)
- Lead-free and RoHS-compliant product.
- Total 7 types are available. (8mm size : 4.5mm / 6.8mm, 10mm size : 4.5mm / 6.8mm, 12mm size : 4.5mm / 6.0mm / 8.0mm)



Application

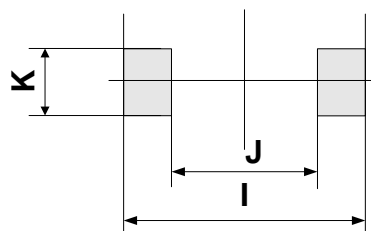
Suitable for DC-DC converter of each kind of device such as automotive application, lap top, LCD TV, home audio, car audio and amusement device.

Dimensions



(Unit : mm)

Recommended Land Pattern



(Unit : mm)

Type Name	A	B	C	D	E	F	G	H	I	J	K
HER8042	11.3max.	8.0±0.3	4.5 max.	8.7±0.3	(1.15)	(6.6)	(1.15)	2.0	10.1	6.1	2.8
HER8065			6.8 max.								
HER1042	14.1max.	10.0±0.5	4.5 max.	11.1±0.3	(1.5)	(8.3)	(1.5)	2.5	13.1	7.2	2.8
HER1065			6.8 max.								
HER1242	16.9max.	12.0±0.5	4.5 max.	13.0±0.3	(1.7)	(10)	(1.7)	3.0	15.8	8.7	3.3
HER1257			6.0 max.								
HER1277			8.0 max.								



SAGAMI ELEC CO., LTD.
<http://www.sagami-elec.co.jp>

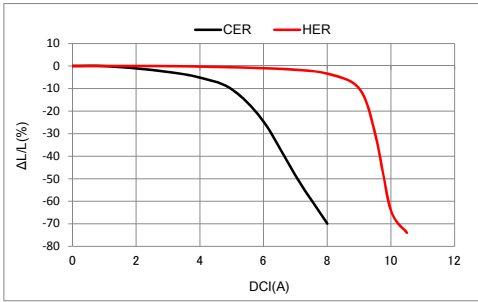
10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
 Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
 Engineering Dept. TEL : +81 45 521 4543, E-mail : tech@sagami-elec.co.jp

SMD Hybrid Power Inductor Series

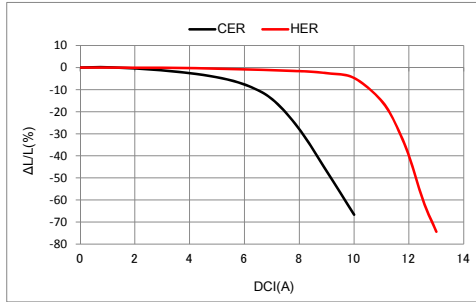
HER Series VS CER Series

■ Comparing characteristics of DC Saturation Allowable Current

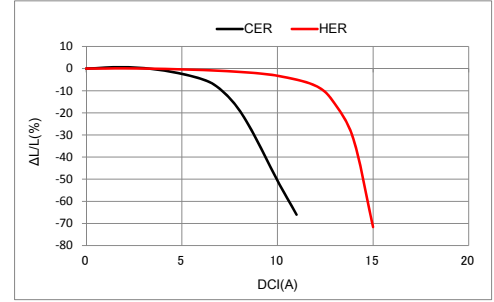
1242 Type (10uH)



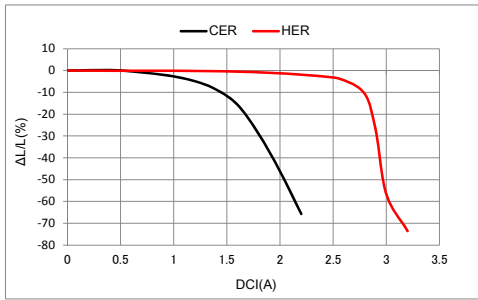
1257 Type (10uH)



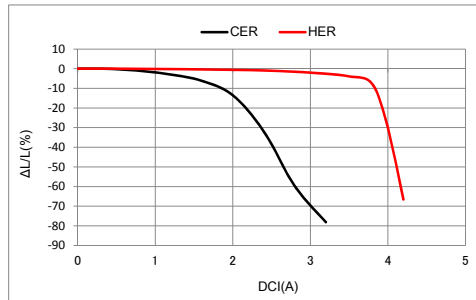
1277 Type (10uH)



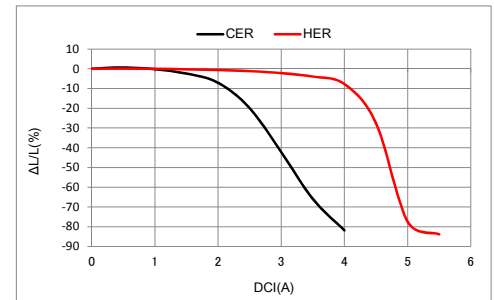
1242 Type (100uH)



1257 Type (100uH)

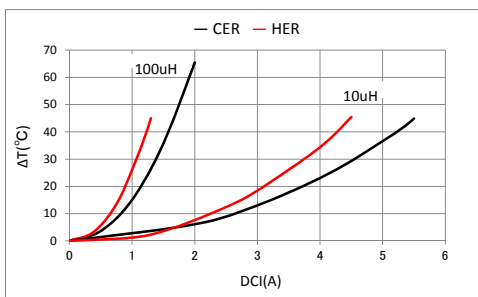


1277 Type (100uH)

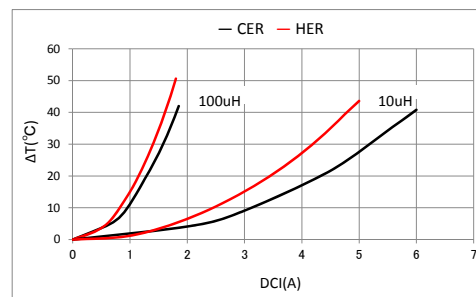


■ Comparing characteristics of Temperature Rise Allowable Current

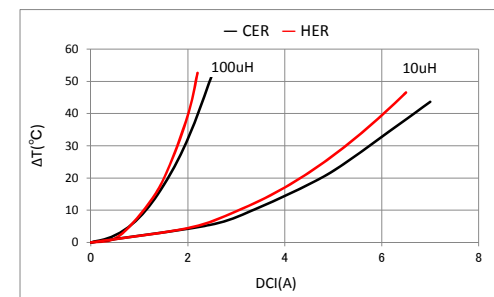
1242 Type (10uH / 100uH)



1257 Type (10uH / 100uH)



1277 Type (10uH / 100uH)



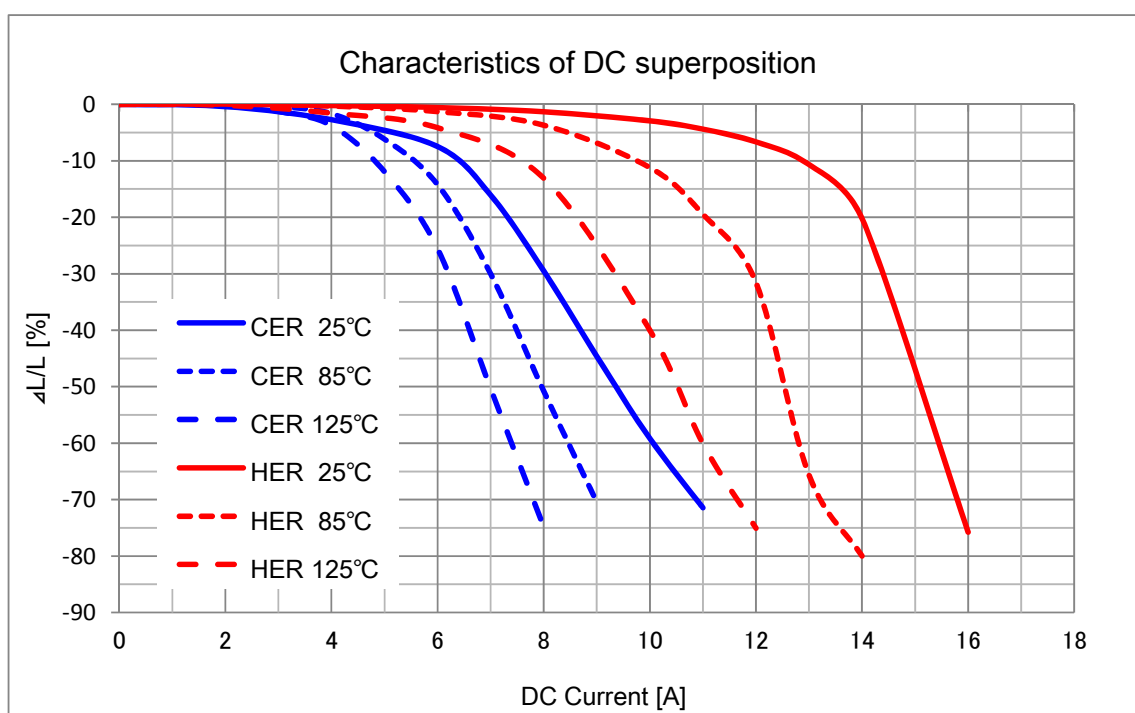
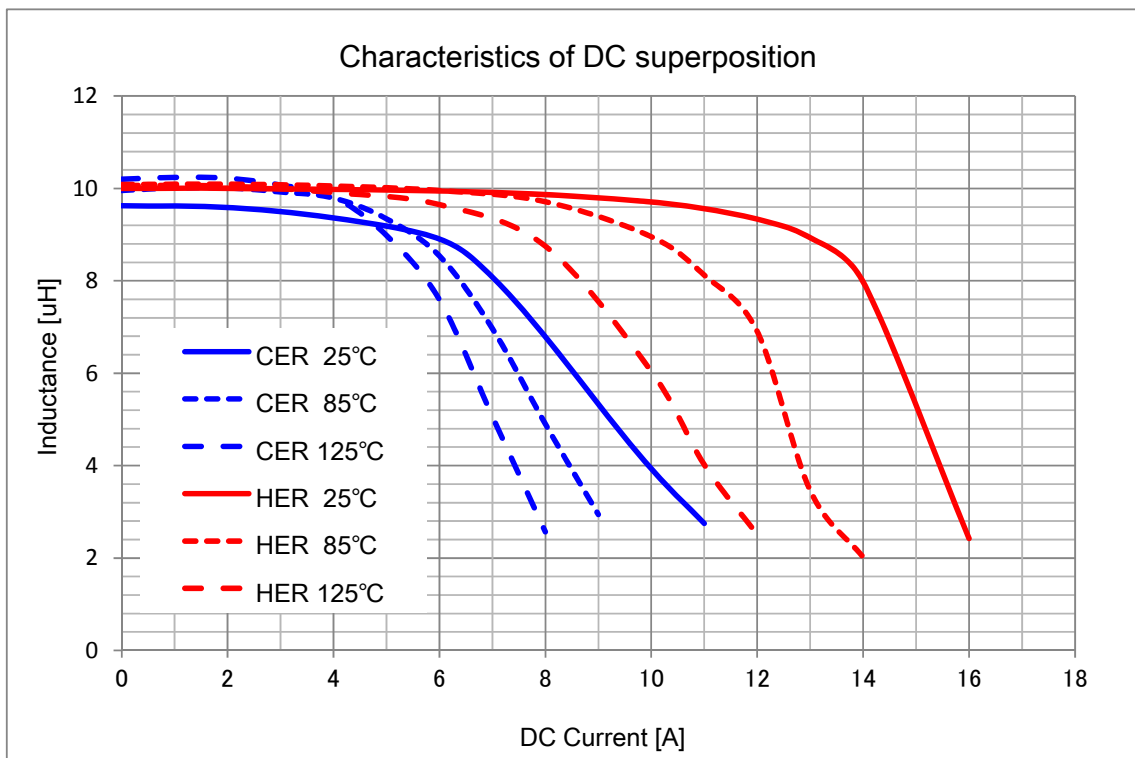
SAGAMI ELEC CO., LTD.
<http://www.sagami-elec.co.jp>

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, E-mail : tech@sagami-elec.co.jp

SMD Hybrid Power Inductor Series

HER1277-100M VS CER1277B-100M

Temperature change comparative characteristics of DC Saturation Allowable Current



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER8042)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER8042-1R0N-R	1.0 \pm 30%	0.007 \pm 30%	14.4 (20.6)	4.90 (7.00)
HER8042-1R5N-R	1.5 \pm 30%	0.009 \pm 30%	12.2 (17.5)	4.30 (6.13)
HER8042-2R0N-R	2.0 \pm 30%	0.013 \pm 30%	10.0 (14.3)	3.65 (5.23)
HER8042-2R7N-R	2.7 \pm 30%	0.018 \pm 30%	8.80 (12.6)	3.20 (4.60)
HER8042-3R3N-R	3.3 \pm 30%	0.023 \pm 30%	7.70 (11.0)	2.90 (4.15)
HER8042-4R3N-R	4.3 \pm 30%	0.030 \pm 30%	6.55 (9.40)	2.55 (3.67)
HER8042-5R1N-R	5.1 \pm 30%	0.033 \pm 30%	6.10 (8.73)	2.40 (3.50)
HER8042-6R2N-R	6.2 \pm 30%	0.041 \pm 30%	5.75 (8.21)	2.20 (3.19)
HER8042-7R5N-R	7.5 \pm 30%	0.051 \pm 30%	5.05 (7.24)	2.00 (2.90)
HER8042-9R1N-R	9.1 \pm 30%	0.058 \pm 30%	4.75 (6.78)	1.85 (2.72)
HER8042-100M-R	10 \pm 20%	0.064 \pm 30%	4.45 (6.40)	1.70 (2.35)
HER8042-120M-R	12 \pm 20%	0.078 \pm 30%	4.15 (5.92)	1.55 (2.15)
HER8042-150M-R	15 \pm 20%	0.089 \pm 30%	3.70 (5.31)	1.45 (2.00)
HER8042-180M-R	18 \pm 20%	0.12 \pm 30%	3.45 (4.93)	1.25 (1.73)
HER8042-220M-R	22 \pm 20%	0.14 \pm 30%	3.00 (4.27)	1.12 (1.56)
HER8042-270M-R	27 \pm 20%	0.19 \pm 30%	2.60 (3.71)	0.97 (1.35)
HER8042-330M-R	33 \pm 20%	0.21 \pm 30%	2.50 (3.56)	0.94 (1.32)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .
() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.
() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER8065)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER8065-1R1N-R	1.1 \pm 30%	0.009 \pm 30%	15.4 (22.0)	5.20 (7.10)
HER8065-1R6N-R	1.6 \pm 30%	0.011 \pm 30%	12.6 (18.0)	4.65 (6.25)
HER8065-2R2N-R	2.2 \pm 30%	0.013 \pm 30%	10.9 (15.6)	4.30 (5.72)
HER8065-3R0N-R	3.0 \pm 30%	0.015 \pm 30%	9.80 (14.0)	4.00 (5.25)
HER8065-3R6N-R	3.6 \pm 30%	0.016 \pm 30%	9.10 (13.0)	3.75 (4.85)
HER8065-4R3N-R	4.3 \pm 30%	0.018 \pm 30%	8.25 (11.8)	3.55 (4.52)
HER8065-5R6N-R	5.6 \pm 30%	0.020 \pm 30%	7.60 (10.9)	3.35 (4.24)
HER8065-6R2N-R	6.2 \pm 30%	0.024 \pm 30%	6.65 (9.53)	3.00 (4.13)
HER8065-7R5N-R	7.5 \pm 30%	0.030 \pm 30%	6.35 (9.06)	2.70 (3.75)
HER8065-9R1N-R	9.1 \pm 30%	0.034 \pm 30%	5.80 (8.31)	2.50 (3.48)
HER8065-100M-R	10 \pm 20%	0.040 \pm 30%	5.35 (7.62)	2.25 (3.18)
HER8065-120M-R	12 \pm 20%	0.043 \pm 30%	5.10 (7.32)	2.20 (3.10)
HER8065-150M-R	15 \pm 20%	0.058 \pm 30%	4.60 (6.56)	1.90 (2.64)
HER8065-180M-R	18 \pm 20%	0.072 \pm 30%	3.95 (5.65)	1.75 (2.40)
HER8065-220M-R	22 \pm 20%	0.081 \pm 30%	3.70 (5.27)	1.60 (2.24)
HER8065-270M-R	27 \pm 20%	0.10 \pm 30%	3.35 (4.80)	1.42 (2.00)
HER8065-330M-R	33 \pm 20%	0.12 \pm 30%	3.10 (4.44)	1.33 (1.86)
HER8065-390M-R	39 \pm 20%	0.15 \pm 30%	2.75 (3.93)	1.16 (1.64)
HER8065-470M-R	47 \pm 20%	0.18 \pm 30%	2.60 (3.71)	1.06 (1.50)
HER8065-560M-R	56 \pm 20%	0.21 \pm 30%	2.35 (3.36)	0.99 (1.37)
HER8065-680M-R	68 \pm 20%	0.26 \pm 30%	2.10 (3.00)	0.85 (1.22)
HER8065-820M-R	82 \pm 20%	0.31 \pm 30%	1.93 (2.76)	0.78 (1.11)
HER8065-101M-R	100 \pm 20%	0.38 \pm 30%	1.73 (2.47)	0.68 (1.00)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .
() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.
() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER1042)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER1042-1R5N-R	1.5 \pm 30%	0.007 \pm 30%	13.0 (18.7)	5.70 (7.70)
HER1042-2R0N-R	2.0 \pm 30%	0.009 \pm 30%	10.7 (15.3)	5.15 (6.95)
HER1042-3R0N-R	3.0 \pm 30%	0.012 \pm 30%	9.30 (13.1)	4.45 (6.05)
HER1042-3R9N-R	3.9 \pm 30%	0.016 \pm 30%	8.00 (11.6)	3.80 (5.20)
HER1042-4R7N-R	4.7 \pm 30%	0.019 \pm 30%	7.00 (10.0)	3.60 (4.95)
HER1042-6R2N-R	6.2 \pm 30%	0.023 \pm 30%	6.30 (8.83)	3.25 (4.35)
HER1042-7R5N-R	7.5 \pm 30%	0.028 \pm 30%	5.50 (7.89)	2.95 (3.95)
HER1042-9R1N-R	9.1 \pm 30%	0.036 \pm 30%	5.25 (7.55)	2.62 (3.50)
HER1042-100M-R	10 \pm 20%	0.046 \pm 30%	4.80 (6.76)	2.23 (3.10)
HER1042-120M-R	12 \pm 20%	0.050 \pm 30%	4.40 (6.28)	2.15 (2.90)
HER1042-150M-R	15 \pm 20%	0.057 \pm 30%	4.00 (5.72)	2.00 (2.68)
HER1042-180M-R	18 \pm 20%	0.076 \pm 30%	3.70 (5.22)	1.70 (2.33)
HER1042-220M-R	22 \pm 20%	0.081 \pm 30%	3.45 (5.08)	1.65 (2.26)
HER1042-270M-R	27 \pm 20%	0.095 \pm 30%	3.10 (4.43)	1.52 (2.08)
HER1042-330M-R	33 \pm 20%	0.13 \pm 30%	2.70 (3.90)	1.30 (1.78)
HER1042-390M-R	39 \pm 20%	0.16 \pm 30%	2.50 (3.54)	1.18 (1.62)
HER1042-470M-R	47 \pm 20%	0.18 \pm 30%	2.30 (3.26)	1.10 (1.50)
HER1042-560M-R	56 \pm 20%	0.22 \pm 30%	2.20 (3.07)	1.00 (1.37)
HER1042-680M-R	68 \pm 20%	0.26 \pm 30%	1.89 (2.70)	0.93 (1.26)
HER1042-820M-R	82 \pm 20%	0.32 \pm 30%	1.75 (2.50)	0.85 (1.15)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .
() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.
() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER1065)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER1065-1R5N-R	1.5 \pm 30%	0.007 \pm 30%	16.9 (24.2)	6.35 (9.10)
HER1065-2R0N-R	2.0 \pm 30%	0.008 \pm 30%	15.4 (22.1)	5.80 (8.20)
HER1065-2R7N-R	2.7 \pm 30%	0.009 \pm 30%	13.9 (19.9)	5.30 (7.60)
HER1065-3R6N-R	3.6 \pm 30%	0.011 \pm 30%	12.0 (17.1)	5.00 (7.05)
HER1065-4R7N-R	4.7 \pm 30%	0.012 \pm 30%	10.8 (15.5)	4.60 (6.60)
HER1065-5R6N-R	5.6 \pm 30%	0.014 \pm 30%	9.60 (13.8)	4.20 (6.20)
HER1065-7R5N-R	7.5 \pm 30%	0.020 \pm 30%	8.20 (11.8)	3.45 (5.13)
HER1065-9R1N-R	9.1 \pm 30%	0.022 \pm 30%	7.30 (10.5)	3.35 (4.90)
HER1065-100M-R	10 \pm 20%	0.024 \pm 30%	6.90 (9.93)	3.30 (4.70)
HER1065-120M-R	12 \pm 20%	0.028 \pm 30%	6.50 (9.33)	3.00 (4.35)
HER1065-150M-R	15 \pm 20%	0.039 \pm 30%	5.60 (8.07)	2.60 (3.60)
HER1065-180M-R	18 \pm 20%	0.047 \pm 30%	5.20 (7.43)	2.30 (3.20)
HER1065-220M-R	22 \pm 20%	0.064 \pm 30%	4.50 (6.49)	1.95 (2.74)
HER1065-270M-R	27 \pm 20%	0.082 \pm 30%	4.20 (6.03)	1.68 (2.33)
HER1065-330M-R	33 \pm 20%	0.11 \pm 30%	3.70 (5.40)	1.43 (2.00)
HER1065-390M-R	39 \pm 20%	0.12 \pm 30%	3.50 (5.12)	1.35 (1.90)
HER1065-470M-R	47 \pm 20%	0.13 \pm 30%	3.25 (4.70)	1.30 (1.85)
HER1065-560M-R	56 \pm 20%	0.15 \pm 30%	2.90 (4.17)	1.27 (1.80)
HER1065-680M-R	68 \pm 20%	0.17 \pm 30%	2.65 (3.79)	1.22 (1.73)
HER1065-820M-R	82 \pm 20%	0.22 \pm 30%	2.50 (3.47)	1.10 (1.52)
HER1065-101M-R	100 \pm 20%	0.26 \pm 30%	2.40 (3.20)	1.05 (1.40)
HER1065-121M-R	120 \pm 20%	0.30 \pm 30%	2.00 (2.86)	0.90 (1.25)
HER1065-151M-R	150 \pm 20%	0.35 \pm 30%	1.80 (2.67)	0.81 (1.12)
HER1065-181M-R	180 \pm 20%	0.39 \pm 30%	1.60 (2.41)	0.78 (1.08)
HER1065-221M-R	220 \pm 20%	0.52 \pm 30%	1.50 (2.19)	0.68 (0.94)
HER1065-271M-R	270 \pm 20%	0.66 \pm 30%	1.35 (1.92)	0.60 (0.83)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .

() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.

() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER1242)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER1242-2R0N-R	2.0 \pm 30%	0.007 \pm 30%	14.5 (20.7)	6.30 (9.90)
HER1242-2R7N-R	2.7 \pm 30%	0.009 \pm 30%	12.5 (17.8)	5.80 (8.57)
HER1242-3R9N-R	3.9 \pm 30%	0.013 \pm 30%	10.5 (15.0)	4.90 (7.08)
HER1242-5R1N-R	5.1 \pm 30%	0.016 \pm 30%	8.70 (12.5)	4.30 (6.13)
HER1242-6R8N-R	6.8 \pm 30%	0.020 \pm 30%	8.00 (11.5)	3.85 (5.45)
HER1242-8R2N-R	8.2 \pm 30%	0.026 \pm 30%	7.10 (10.1)	3.45 (4.79)
HER1242-100M-R	10 \pm 20%	0.032 \pm 30%	6.50 (9.23)	3.10 (4.26)
HER1242-120M-R	12 \pm 20%	0.038 \pm 30%	5.60 (8.17)	2.80 (3.86)
HER1242-150M-R	15 \pm 20%	0.047 \pm 30%	5.20 (7.57)	2.40 (3.42)
HER1242-180M-R	18 \pm 20%	0.060 \pm 30%	4.90 (7.00)	2.10 (3.00)
HER1242-220M-R	22 \pm 20%	0.071 \pm 30%	4.40 (6.23)	1.90 (2.73)
HER1242-270M-R	27 \pm 20%	0.089 \pm 30%	3.95 (5.63)	1.70 (2.40)
HER1242-330M-R	33 \pm 20%	0.11 \pm 30%	3.55 (5.10)	1.50 (2.09)
HER1242-390M-R	39 \pm 20%	0.13 \pm 30%	3.30 (4.75)	1.40 (1.98)
HER1242-470M-R	47 \pm 20%	0.15 \pm 30%	3.05 (4.35)	1.25 (1.79)
HER1242-560M-R	56 \pm 20%	0.18 \pm 30%	2.80 (4.02)	1.20 (1.65)
HER1242-680M-R	68 \pm 20%	0.22 \pm 30%	2.55 (3.65)	1.05 (1.45)
HER1242-820M-R	82 \pm 20%	0.27 \pm 30%	2.28 (3.25)	0.98 (1.31)
HER1242-101M-R	100 \pm 20%	0.32 \pm 30%	2.05 (2.90)	0.89 (1.17)
HER1242-121M-R	120 \pm 20%	0.38 \pm 30%	1.90 (2.74)	0.82 (1.07)
HER1242-151M-R	150 \pm 20%	0.47 \pm 30%	1.75 (2.52)	0.73 (1.00)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .

() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.

() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER1257)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER1257-2R7N-R	2.7 \pm 30%	0.008 \pm 30%	15.9 (22.7)	5.90 (8.80)
HER1257-3R9N-R	3.9 \pm 30%	0.010 \pm 30%	13.1 (18.7)	5.30 (7.83)
HER1257-5R1N-R	5.1 \pm 30%	0.012 \pm 30%	12.0 (17.0)	4.70 (7.11)
HER1257-6R2N-R	6.2 \pm 30%	0.015 \pm 30%	10.5 (15.4)	4.30 (6.33)
HER1257-8R2N-R	8.2 \pm 30%	0.019 \pm 30%	9.40 (13.5)	3.80 (5.59)
HER1257-100M-R	10 \pm 20%	0.025 \pm 30%	8.20 (12.2)	3.40 (4.84)
HER1257-120M-R	12 \pm 20%	0.029 \pm 30%	7.90 (11.5)	3.10 (4.48)
HER1257-150M-R	15 \pm 20%	0.034 \pm 30%	7.10 (10.2)	2.85 (4.12)
HER1257-180M-R	18 \pm 20%	0.041 \pm 30%	6.25 (9.10)	2.60 (3.74)
HER1257-220M-R	22 \pm 20%	0.047 \pm 30%	5.40 (8.20)	2.40 (3.48)
HER1257-270M-R	27 \pm 20%	0.060 \pm 30%	5.00 (7.55)	2.15 (3.06)
HER1257-330M-R	33 \pm 20%	0.070 \pm 30%	4.80 (6.70)	2.00 (2.82)
HER1257-390M-R	39 \pm 20%	0.085 \pm 30%	4.50 (6.15)	1.80 (2.55)
HER1257-470M-R	47 \pm 20%	0.10 \pm 30%	3.80 (5.65)	1.65 (2.34)
HER1257-560M-R	56 \pm 20%	0.12 \pm 30%	3.40 (5.20)	1.50 (2.13)
HER1257-680M-R	68 \pm 20%	0.15 \pm 30%	3.10 (4.80)	1.40 (1.89)
HER1257-820M-R	82 \pm 20%	0.19 \pm 30%	2.90 (4.25)	1.25 (1.67)
HER1257-101M-R	100 \pm 20%	0.21 \pm 30%	2.75 (3.95)	1.15 (1.59)
HER1257-121M-R	120 \pm 20%	0.27 \pm 30%	2.50 (3.50)	1.05 (1.39)
HER1257-151M-R	150 \pm 20%	0.32 \pm 30%	2.10 (3.25)	0.93 (1.27)
HER1257-181M-R	180 \pm 20%	0.39 \pm 30%	1.95 (2.95)	0.84 (1.15)
HER1257-221M-R	220 \pm 20%	0.45 \pm 30%	1.80 (2.70)	0.77 (1.07)
HER1257-271M-R	270 \pm 20%	0.60 \pm 30%	1.55 (2.30)	0.66 (0.92)
HER1257-331M-R	330 \pm 20%	0.74 \pm 30%	1.40 (2.10)	0.60 (0.82)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .

() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.

() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp

■ Specifications (HER1277)

Sagami Part Number	Inductance (μ H)	DC Resistance (Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current(A)
HER1277-2R0N-R	2.0 \pm 30%	0.007 \pm 30%	17.0 (26.3)	6.80 (9.60)
HER1277-3R0N-R	3.0 \pm 30%	0.009 \pm 30%	14.5 (23.0)	6.25 (8.70)
HER1277-3R9N-R	3.9 \pm 30%	0.010 \pm 30%	13.0 (21.3)	5.75 (8.00)
HER1277-5R1N-R	5.1 \pm 30%	0.012 \pm 30%	12.5 (18.4)	5.35 (7.45)
HER1277-6R2N-R	6.2 \pm 30%	0.013 \pm 30%	11.0 (16.8)	5.00 (6.95)
HER1277-8R2N-R	8.2 \pm 30%	0.015 \pm 30%	9.00 (14.7)	4.70 (6.50)
HER1277-100M-R	10 \pm 20%	0.017 \pm 30%	8.70 (13.7)	4.40 (6.10)
HER1277-120M-R	12 \pm 20%	0.019 \pm 30%	8.40 (12.7)	4.15 (5.80)
HER1277-150M-R	15 \pm 20%	0.021 \pm 30%	7.15 (11.5)	3.90 (5.40)
HER1277-180M-R	18 \pm 20%	0.029 \pm 30%	6.40 (10.0)	3.30 (4.55)
HER1277-220M-R	22 \pm 20%	0.031 \pm 30%	5.85 (9.35)	3.15 (4.40)
HER1277-270M-R	27 \pm 20%	0.041 \pm 30%	5.40 (8.40)	2.75 (3.85)
HER1277-330M-R	33 \pm 20%	0.055 \pm 30%	5.15 (7.35)	2.35 (3.25)
HER1277-390M-R	39 \pm 20%	0.058 \pm 30%	4.95 (7.10)	2.30 (3.18)
HER1277-470M-R	47 \pm 20%	0.070 \pm 30%	4.50 (6.50)	2.05 (2.85)
HER1277-560M-R	56 \pm 20%	0.086 \pm 30%	4.10 (5.90)	1.85 (2.60)
HER1277-680M-R	68 \pm 20%	0.10 \pm 30%	3.65 (5.25)	1.70 (2.35)
HER1277-820M-R	82 \pm 20%	0.12 \pm 30%	3.35 (4.80)	1.55 (2.15)
HER1277-101M-R	100 \pm 20%	0.14 \pm 30%	3.10 (4.50)	1.45 (2.00)
HER1277-121M-R	120 \pm 20%	0.18 \pm 30%	2.75 (4.00)	1.25 (1.75)
HER1277-151M-R	150 \pm 20%	0.22 \pm 30%	2.50 (3.65)	1.15 (1.55)
HER1277-181M-R	180 \pm 20%	0.28 \pm 30%	2.30 (3.35)	1.00 (1.40)
HER1277-221M-R	220 \pm 20%	0.36 \pm 30%	2.00 (2.90)	0.88 (1.20)
HER1277-271M-R	270 \pm 20%	0.39 \pm 30%	1.70 (2.65)	0.85 (1.15)
HER1277-331M-R	330 \pm 20%	0.48 \pm 30%	1.60 (2.40)	0.76 (1.05)
HER1277-391M-R	390 \pm 20%	0.57 \pm 30%	1.40 (2.20)	0.69 (0.96)
HER1277-471M-R	470 \pm 20%	0.66 \pm 30%	1.30 (2.00)	0.64 (0.89)
HER1277-561M-R	560 \pm 20%	0.81 \pm 30%	1.25 (1.80)	0.58 (0.80)
HER1277-681M-R	680 \pm 20%	0.96 \pm 30%	1.15 (1.70)	0.53 (0.73)
HER1277-821M-R	820 \pm 20%	1.18 \pm 30%	1.00 (1.50)	0.47 (0.65)

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30% .

() value of inductance decrease 30% .

2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.

() A rise in temperature of core surface is 40°C.



SAGAMI ELEC CO., LTD.
<http://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, E-mail : tech@sagami-elec.co.jp