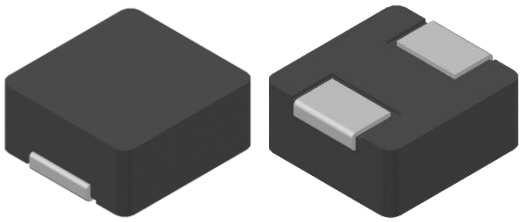
CoilMaster

RoHS Halogen Free AEC Q200

CMI-CMMPP6030HL-N SERIES

Features

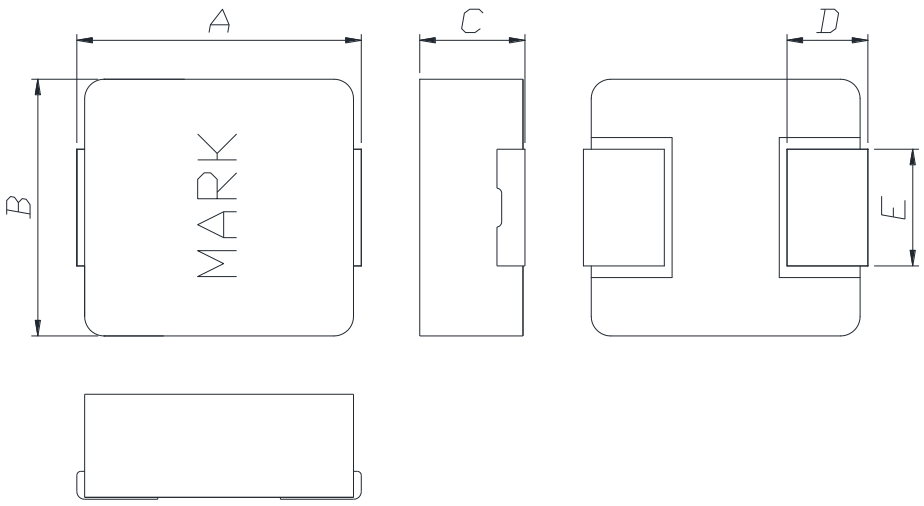
- Metal powder molding type for EMC protection.
- Available tape and reel for auto insertion.
- Halogen-Free.
- RoHS compliant.
- AEC-Q200 qualified.



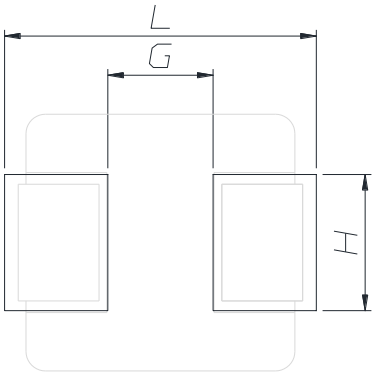
Applications

- Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

Dimension (Unit:mm)



Land Pattern (Unit:mm)



A	B	C	D	E
6.95 ±0.45	6.6 ±0.25	3.0 Max.	1.8 ±0.3	3.0 ±0.3

L	G	H
8.0	3.7	3.5

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▪ Update date: 2026.10.06 (Rev.1.2)

Regulation of part number

CMI	-	CMMPP	6030	HL	-	1R0	M	-	N
①		②	③	④		⑤	⑥		⑦

① CoilMaster's initial

② Series Name : Car Metal Molded Pin type Power inductor

③ Core Size (unit:mm)

④ Material

⑤ Typical inductance value (1.0uH)

⑥ Inductance tolerance (±20%)

⑦ Internal code (N)

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP6030HL-1R0M-N	1.0	7.5(6.5)	16.0(18.0)	13.0(14.0)	1M
CMI-CMMPP6030HL-1R5M-N	1.5	13.2(11)	14.0(16.0)	9.00(10.0)	1M
CMI-CMMPP6030HL-1R8M-N	1.8	15(12.5)	12.0(14.0)	8.00(8.50)	1M
CMI-CMMPP6030HL-2R7M-N	2.7	21(17.5)	10.0(12.0)	7.00(7.50)	1M
CMI-CMMPP6030HL-3R3M-N	3.3	26.4(22)	9.00(10.0)	6.50(7.00)	1M
CMI-CMMPP6030HL-4R7M-N	4.7	30(25)	7.00(8.00)	6.00(6.20)	1M
CMI-CMMPP6030HL-5R6M-N	5.6	38.4(32)	6.50(7.00)	5.50(5.70)	1M
CMI-CMMPP6030HL-6R8M-N	6.8	54(45)	5.50(6.00)	4.80(5.00)	1M
CMI-CMMPP6030HL-100M-N	10	72(60)	5.00(5.50)	4.00(4.20)	1M
CMI-CMMPP6030HL-220M-N	22	126(105)	3.50(4.00)	3.00(3.20)	1M
CMI-CMMPP6030HL-270M-N	27	222(185)	3.20(3.70)	2.80(3.00)	1M
CMI-CMMPP6030HL-330M-N	33	234(195)	3.00(3.50)	2.60(2.80)	1M
CMI-CMMPP6030HL-470M-N	47	360(320)	1.80(2.00)	1.50(1.80)	1M

- Isat: When based on the inductance change rate (Approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40˚c by self heating)
- Operating Temperature Range (including self temperature) : -40˚c ~ +165 ˚c

Note 1: Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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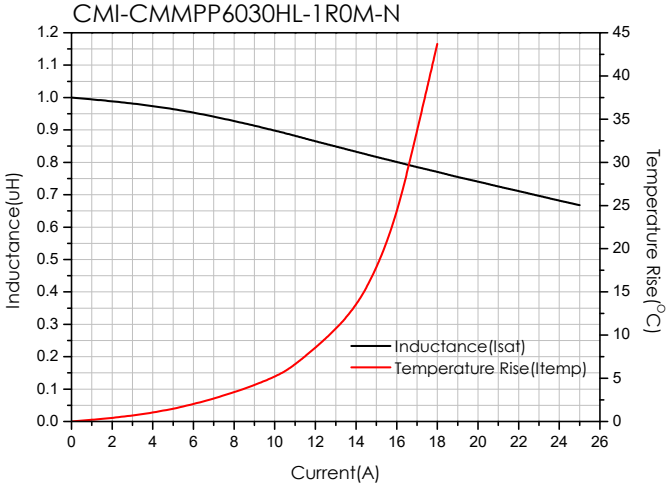
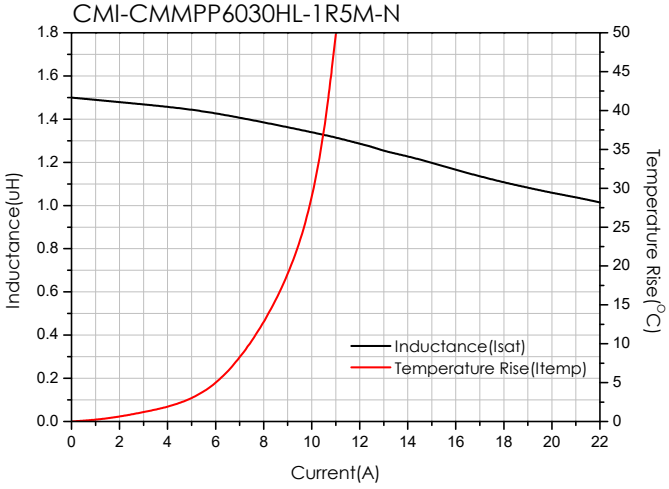
Electrical characteristics

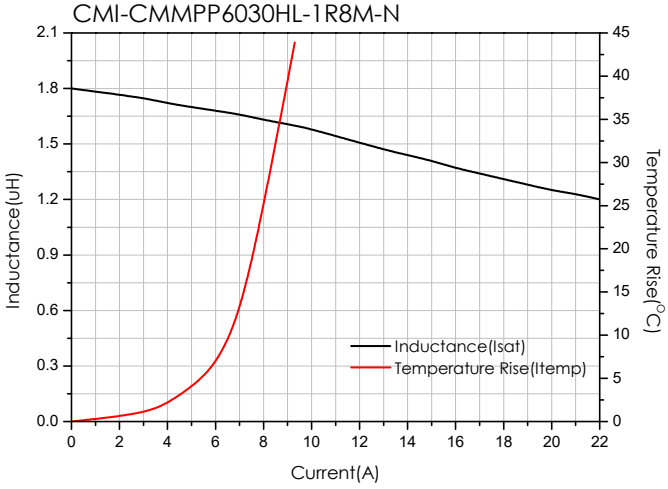
CMI-CMMPP6030HL-1R0M-N



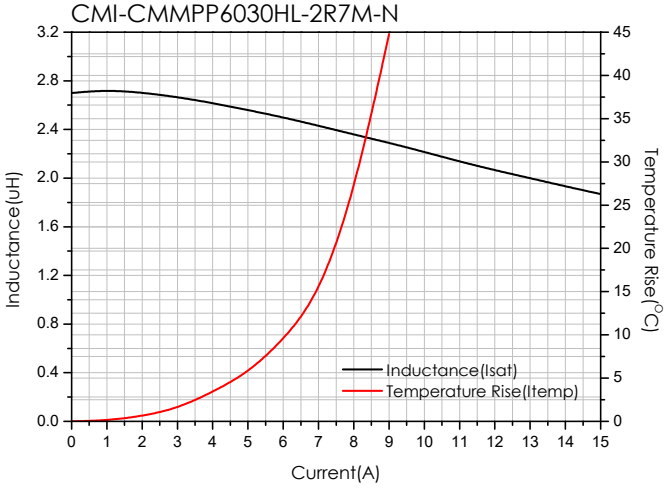
CMI-CMMPP6030HL-1R5M-N



CMI-CMMPP6030HL-1R8M-N



CMI-CMMPP6030HL-2R7M-N



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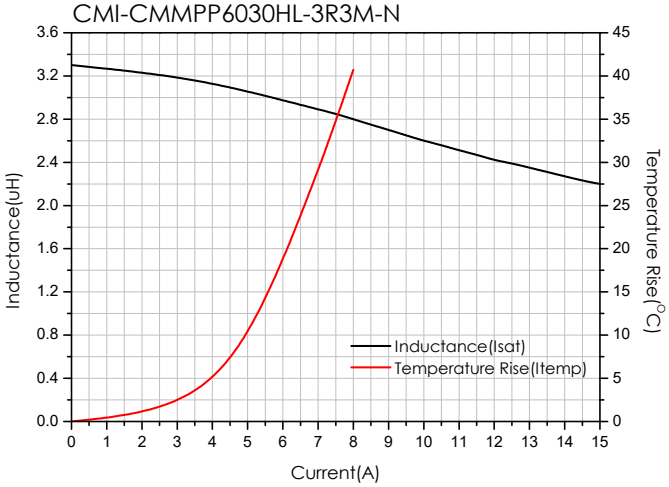

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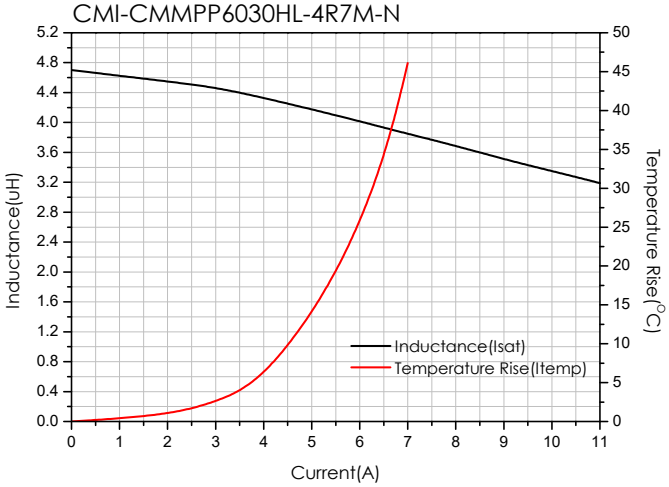

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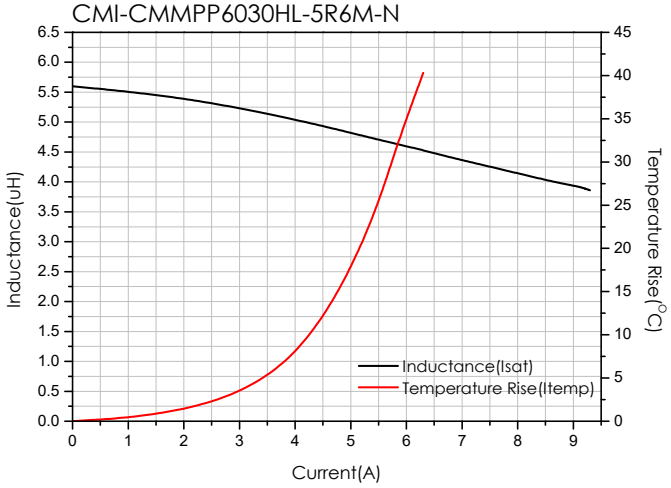
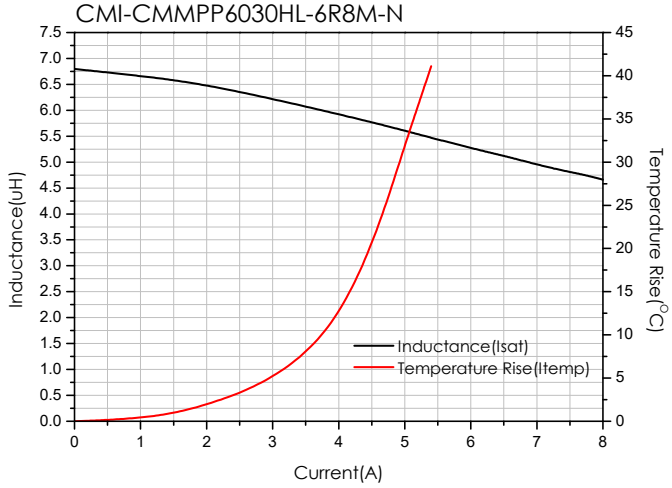
CMI-CMMPP6030HL-5R6M-N



CMI-CMMPP6030HL-6R8M-N



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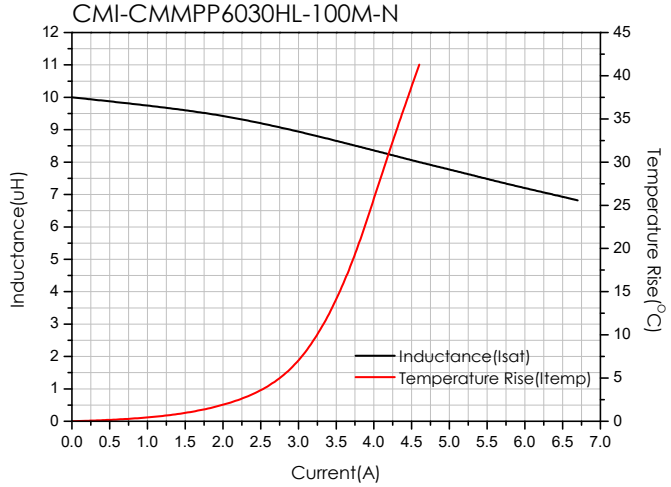
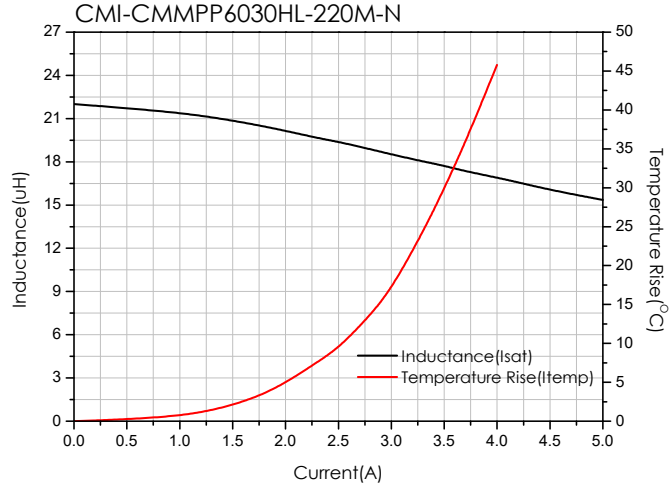
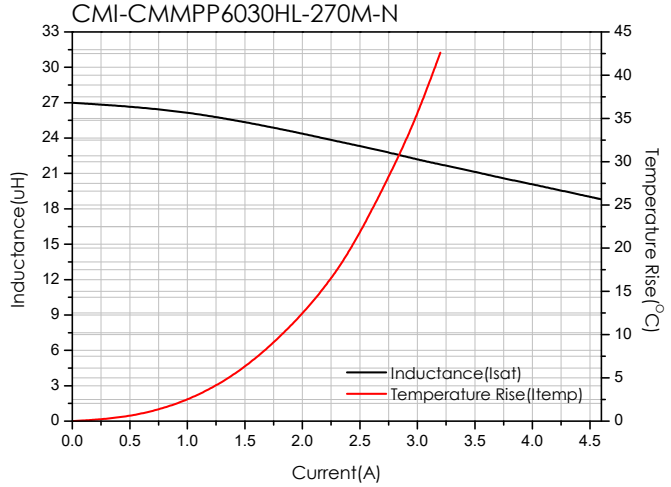


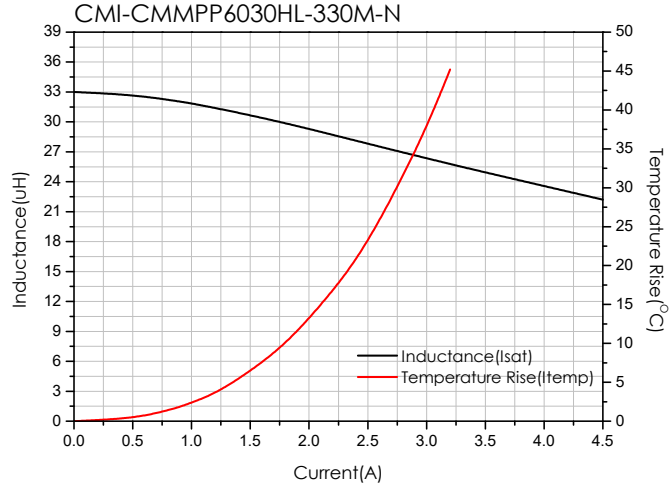
CMI-CMMPP6030HL-220M-N



CMI-CMMPP6030HL-270M-N



CMI-CMMPP6030HL-330M-N



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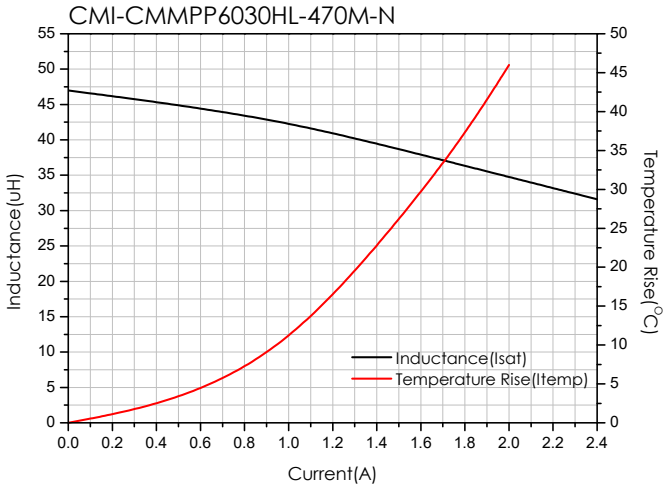
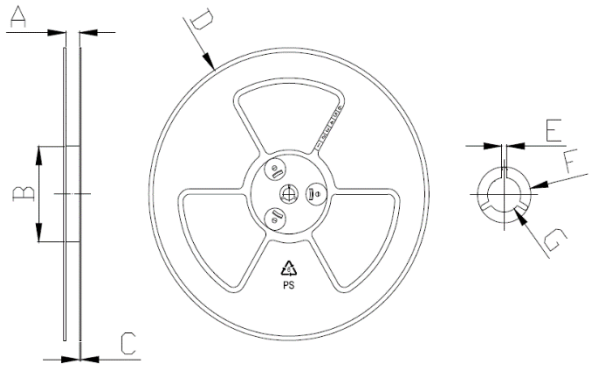

CMI-CMMPP6030HL-470M-N
Inductance(uH)
Temperature Rise(°C)
Current(A)
Inductance(Isat)
Temperature Rise(Itemp)
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4
0 5 10 15 20 25 30 35 40 45 50 55

Packaging

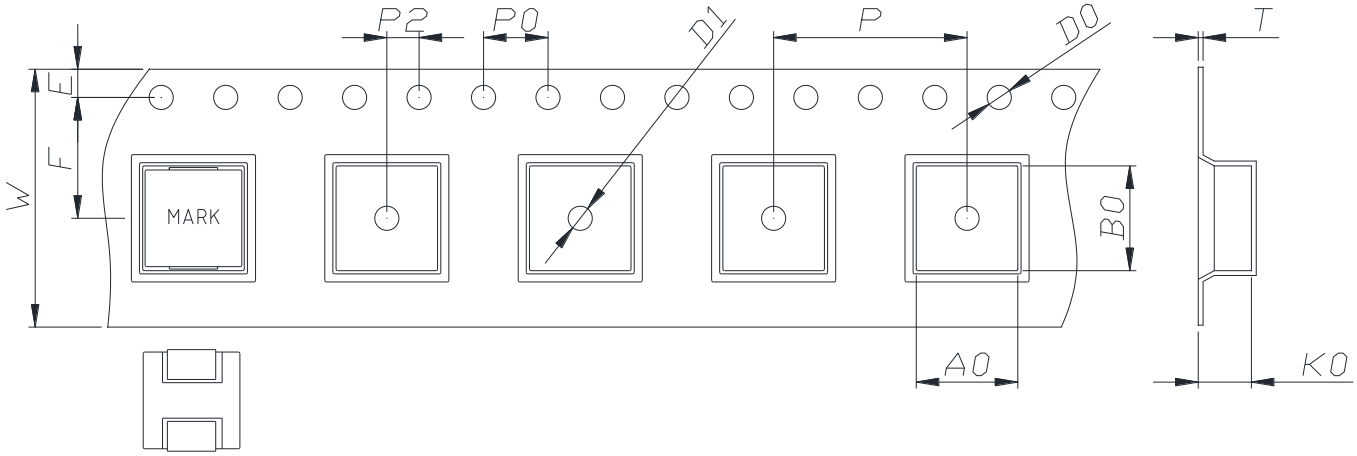
(1) Package quantity: 1,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
16.50 +0.50 -0.50	100.0 +1.00 -1.00	2.00 +0.10 -0.10	330.0 +3.00 -3.00	2.30 +0.30 -0.30	21.50 +0.30 -0.30	13.00 +0.50 -0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
16.00 +0.30 -0.10	7.00 +0.10 -0.10	7.50 +0.10 -0.00	3.20 +0.10 -0.10	1.75 +0.10 -0.10	7.50 +0.10 -0.10	12.00 +0.10 -0.10	4.00 +0.10 -0.10	2.00 +0.10 -0.10	1.50 +0.10 -0.00	0.35 +0.05 -0.05

Korea Sales Office (KOREA) *+82)31-904-1444*
China Sales Office (CHINA) *+86)0758-683-1444*
Hungary Sales office (EUROPE) *+36)1-404-5832*
H.K Sales Office (HONGKONG) *+852)2711-5551*
LA Sales Office (USA) *+1)714-616-6989*

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