

■ Features:

- High current , low DCR , high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- Motor control
- DC/DC converters in distributed power systems
- AEC-Q200 Grade 1 qualified (-40°C to +125°C ambient)

■ Applications:

- Shielded construction reduces EMI
- Low profilis, high current power supplies
- Soft saturation.
- DC/DC converter for Field programmable gate Array
- Battery powered device

■ Parts code:

**ECS-HCMPI**

Type

**0402LRQ**

Dimension / Material

**2R2**

Inductance code

**M**

Tolerance: M : ± 20%

N : ± 30%

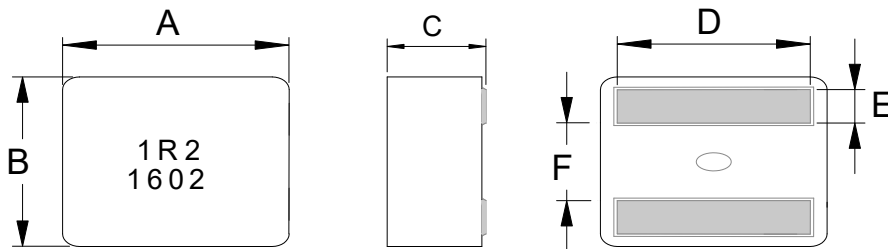
**D**

Date Code

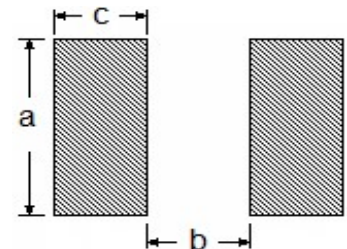
1602

■ PS: Marking: Black.2R2 and 1602(16 YY, 02 WW, follow production date)

■ Outline Dimension:



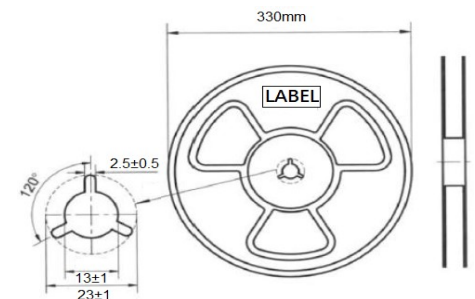
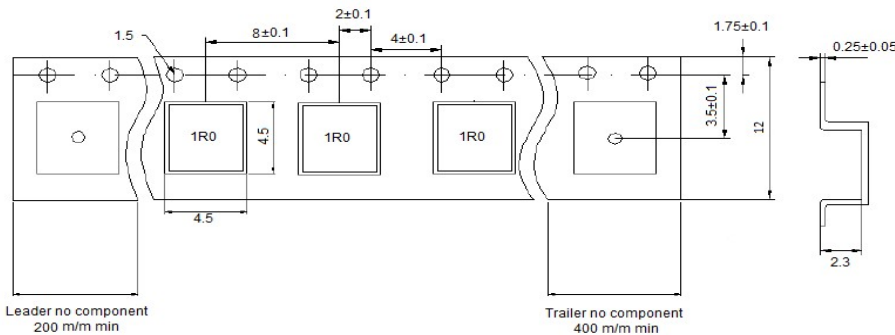
■ Recommended Land Pattern:



TYPE	A	B	C	D	E	F
ECS-HCMPI-0402LRQ	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25

Dimensions in mm

a	b	c
3.8 Typ	1.4 Typ	1.0 Typ



■ Package: Q'TY / Reel

ECS-HCMPI-0402LRQ--3K/pcs



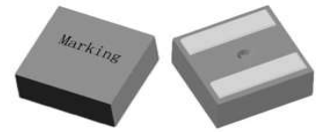
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# Hi-Current Power Inductor ECS-HCMPI-0402LRQ



4.1x4.1x1.9

## ■ Specifications

ECS-HCMPI-0402LRQ						
P/N	L	DCR (mΩ)	Isat (A)		Irms (A)	
	( uH )	Max	Typ.	Max.	20°C Rise	40°C Rise
ECS-HCMPI-0402LRQ-R47M	0.47	6.8	14.0	12.5	9.8	13.2
ECS-HCMPI-0402LRQ-R68M	0.68	8.2	11.6	10.0	9.2	12.0
ECS-HCMPI-0402LRQ-R82M	0.82	9.5	10.2	9.0	8.5	11.5
ECS-HCMPI-0402LRQ-1R0M	1.00	11.7	9.2	8.0	8.0	11.0
ECS-HCMPI-0402LRQ-1R2M	1.20	13.4	8.6	7.5	7.2	9.5
ECS-HCMPI-0402LRQ-1R5M	1.50	15.8	7.5	6.7	6.7	9.1
ECS-HCMPI-0402LRQ-2R0M	2.00	23.3	6.2	5.0	6.2	8.2
ECS-HCMPI-0402LRQ-2R2M	2.20	23.5	6.0	4.8	6.0	8.0
ECS-HCMPI-0402LRQ-3R3M	3.30	38.3	5.3	4.4	4.4	5.5

■ Notes: Tolerance: M (± 20%) , N (± 30%)

■ Test Frequency: 100 KHz / 0.1V

Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -40°C ~ +125°C

Storage Temp: -40°C ~ +125°C



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