

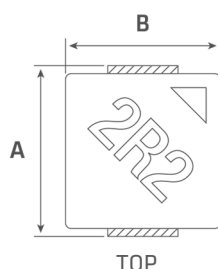
## EMC4012S



## Dimensions / Quantity



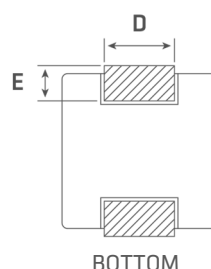
4.3 x 4.0 x 1.2 mm



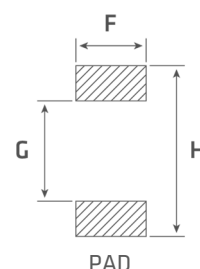
TOP



SIDE



BOTTOM



PAD

| Type      | A (mm)   | B (mm)   | C (mm)  | D (mm)   | E (mm)   | F (mm) | G (mm) | H (mm) | Quantity per reel (pcs) |
|-----------|----------|----------|---------|----------|----------|--------|--------|--------|-------------------------|
| EMC4012S  | 4.3±0.3  | 4.0±0.3  | 1.2max. | 2.0±0.2  | 0.8±0.3  | 2.5    | 2.1    | 5.2    | 4,500                   |
| EMC4020S  | 4.3±0.3  | 4.0±0.3  | 2.0max. | 2.0±0.2  | 0.8±0.3  | 2.5    | 2.1    | 5.2    | 3,500                   |
| EMA5218S  | 5.4±0.3  | 5.2±0.2  | 1.8max. | 2.2±0.3  | 1.2±0.3  | 2.5    | 2.2    | 6.0    | 2,000                   |
| EMA5230S  | 5.4±0.3  | 5.2±0.2  | 3.0max. | 2.2±0.3  | 1.2±0.3  | 2.5    | 2.2    | 6.0    | 2,000                   |
| EMC6515S  | 5.4±0.3  | 6.5±0.3  | 1.5max. | 3.0±0.3  | 1.27±0.3 | 3.5    | 3.8    | 8.0    | 2,000                   |
| EMC6518S  | 7.1±0.3  | 6.5±0.3  | 1.8max. | 3.0±0.3  | 1.27±0.3 | 3.5    | 3.8    | 8.0    | 2,000                   |
| EMC6524S  | 7.1±0.3  | 6.5±0.3  | 2.4max. | 3.0±0.3  | 1.27±0.3 | 3.5    | 3.8    | 8.0    | 1,500                   |
| EMC6530S  | 7.1±0.3  | 6.5±0.3  | 3.0max. | 3.0±0.3  | 1.27±0.3 | 3.5    | 3.8    | 8.0    | 1,500                   |
| EMC6540S  | 7.1±0.3  | 6.5±0.3  | 4.0max. | 3.0±0.3  | 1.27±0.3 | 3.5    | 3.8    | 8.0    | 1,000                   |
| EMA10040S | 11.0±0.3 | 10.0±0.3 | 4.0max. | 3.0±0.5  | 2.0±0.5  | 4.1    | 5.4    | 13.6   | 500                     |
| EMC13050S | 13.5±0.3 | 12.7±0.3 | 5.0max. | 3.0±0.3  | 2.2±0.3  | 4.5    | 8.0    | 14.8   | 500                     |
| EMC17075S | 18.0±0.3 | 17.0±0.3 | 7.5max. | 12.0±0.3 | 2.7±0.4  | 12.2   | 11.4   | 18.9   | 200                     |

| Part Number   | Inductance [μH] | DC Resistance [typ., mΩ]               | DC Resistance [max., mΩ] | Saturation Rated Current [max., A] <sup>1</sup> | Temperature Rise Current [typ., A] <sup>2</sup> |
|---------------|-----------------|--|--------------------------|---|---|
| EMC4012S-R47M | 0.47±20%        | 16.7                                   | 18.3                     | 9.8   | 5.2   |
| EMC4012S-R68M | 0.68±20%        | 31.7                                   | 28.8                     | 8.1   | 4.3   |
| EMC4012S-1R0M | 1.0±20%         | 41.5                                   | 45.7                     | 6.7   | 3.8   |
| EMC4012S-1R5M | 1.5±20%         | 57.9                                   | 63.7                     | 6.2   | 3.0   |
| EMC4012S-2R2M | 2.2±20%         | 70.1                                   | 77.1                     | 4.2   | 2.9   |
| EMC4012S-3R3M | 3.3±20%         | 95.9                                   | 105.4                    | 4.1   | 2.3   |
| EMC4012S-4R7M | 4.7±20%         | 156.9                                  | 172.5                    | 3.1   | 1.8   |
| EMC4012S-6R8M | 6.8±20%         | Will be released in June of this year. |                          |   |   |
| EMC4012S-100M | 10.0±20%        |  |                          |   |   |

- All Test Data is Referenced to 25°C Ambient
- Measuring Condition : 100kHz, 100mV
- Tolerance of Inductance : ± 20%
- <sup>1</sup> Saturation Rated Current : 20% lower than its initial value
- <sup>2</sup> Temperature Rise Current : ΔT = 40°C (Temperature of components should be checked in the end application)
- Operating Temperature : -55 ~ 125°C