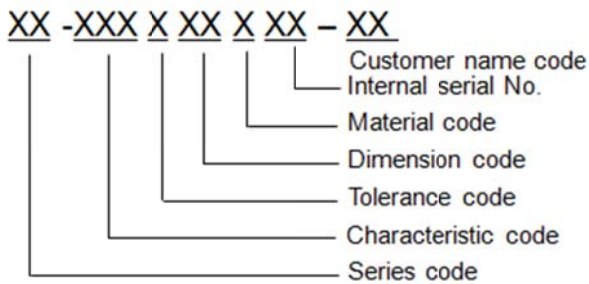
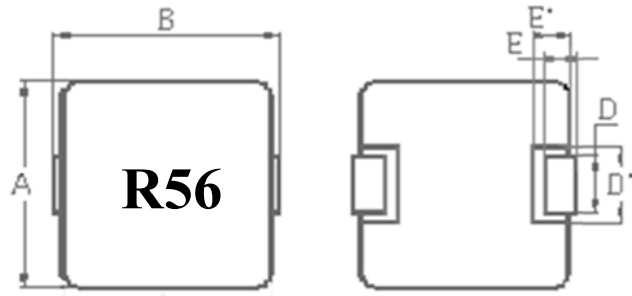


## SMD Alloy Molding Power Inductor EM-73V Series (4210)

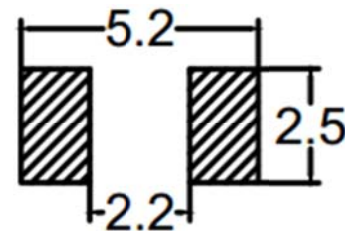
### 1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%  
M:±20% N:±30%

| Code | Dimensions(mm) |
|------|----------------|
| A:   | 4.2±0.25       |
| B:   | 4.4±0.35       |
| C:   | 1.1MAX         |
| E:   | 0.8±0.3        |
| E':  | 1.0±0.1        |
| D :  | 2.0±0.3        |
| D' : | 2.5±0.2        |
| W:   | 0.15+0         |



SUGGEST PCB PATTERN

### 2. SPECIFICATIONS

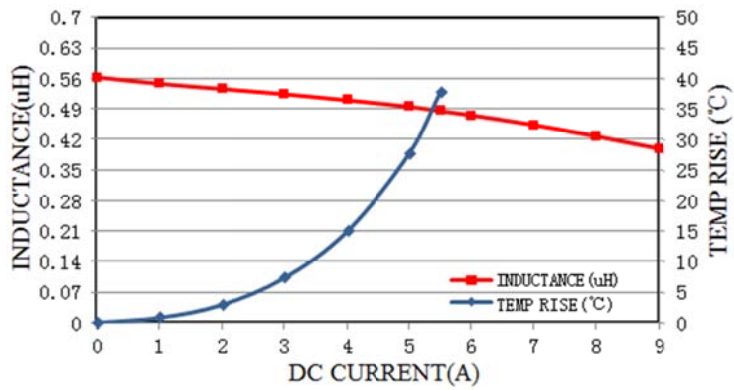
| Part Number  | Inductance L0(uH)±<br>20%@0A | Irms(A)<br>typ | Isat(A)<br>typ | DCR(mΩ)<br>@25℃ |
|--------------|------------------------------|----------------|----------------|-----------------|
| EM-56BM73V01 | 0.56                         | 5.5            | 9              | 26±10%          |
| EM-22AM73V01 | 2.20                         | 3.2            | 4.5            | 83±10%          |

Note:

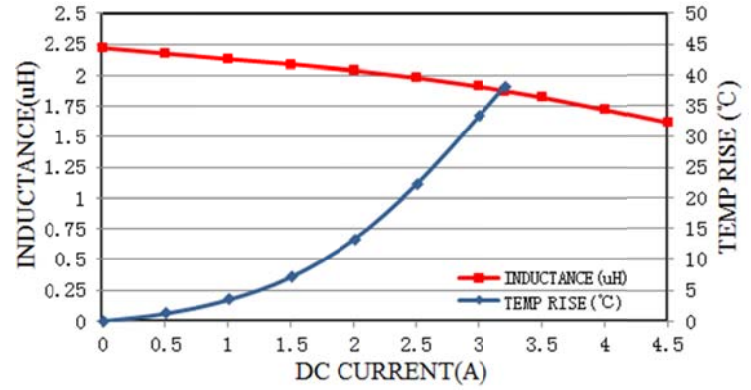
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

### 3. DC Bias Characteristics (Typical)

EM-56BM73V01

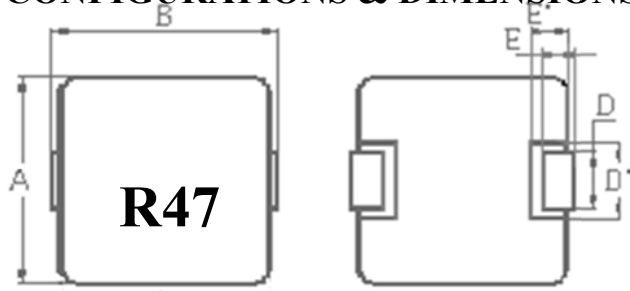


EM-22AM73V01



## SMD Alloy Molding Power Inductor EM-27V Series (4212) :

### 1. CONFIGURATIONS & DIMENSIONS



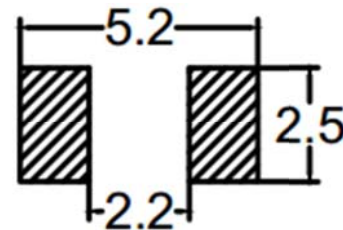
XX -XXX X XX X XX - XX

Customer name code  
Internal serial No.  
Material code  
Dimension code  
Tolerance code  
Characteristic code  
Series code

TOLERANCE CODE:

J:±5% K:±10% L:±15%  
M:±20% N:±30%

| Code | Dimensions(mm) |
|------|----------------|
| A:   | 4.2±0.25       |
| B:   | 4.4±0.35       |
| C:   | 1.0±0.2        |
| E:   | 0.8±0.3        |
| E':  | 1.0±0.1        |
| D :  | 2.0±0.3        |
| D' : | 2.5±0.2        |
| W:   | 0.15+0         |



### 2. SPECIFICATIONS

SUGGEST PCB PATTERN

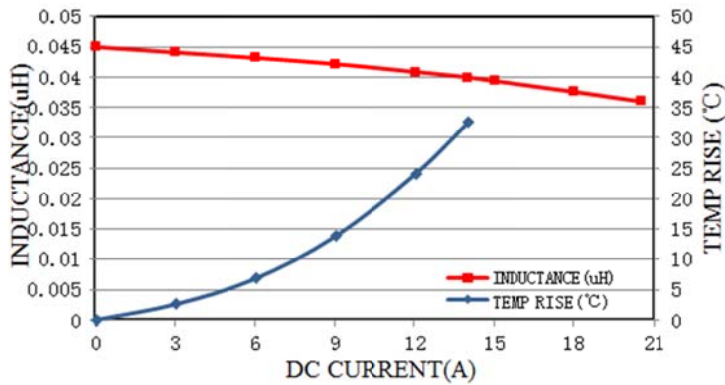
| Part Number  | Inductance L0(uH)±<br>20%@0A | Irms(A)<br>typ | Isat(A)<br>typ | DCR(mΩ)<br>@25℃ |
|--------------|------------------------------|----------------|----------------|-----------------|
| EM-47CM27V01 | 0.047                        | 14             | 20.5           | 3.5max          |
| EM-24BM27V01 | 0.24                         | 7              | 8              | 15max           |
| EM-47BM27V01 | 0.47                         | 6              | 6              | 21max           |
| EM-60BM27V01 | 0.60                         | 5              | 6.5            | 23±10%          |
| EM-68BM27V01 | 0.68                         | 4.5            | 6              | 32±10%          |
| EM-10AM27V03 | 1.00                         | 4              | 6              | 47max           |
| EM-15AM27V01 | 1.50                         | 4              | 5.5            | 52±10%          |
| EM-22AM27V04 | 2.20                         | 2.75           | 3              | 83.5max         |

Note:

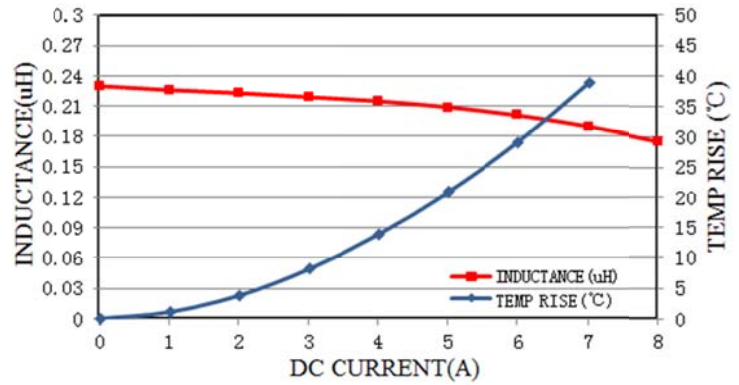
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

### 3. DC Bias Characteristics (Typical)

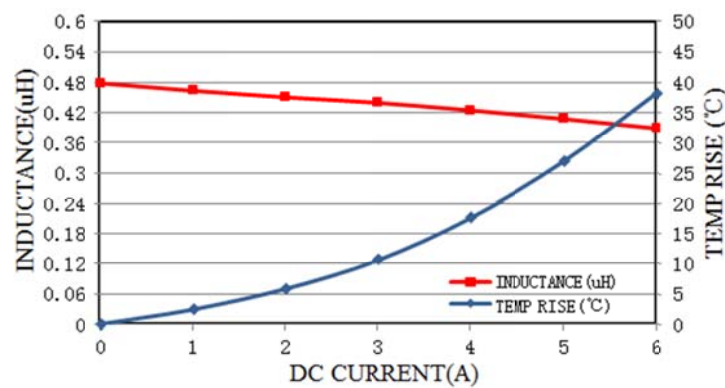
EM-47CM27V01



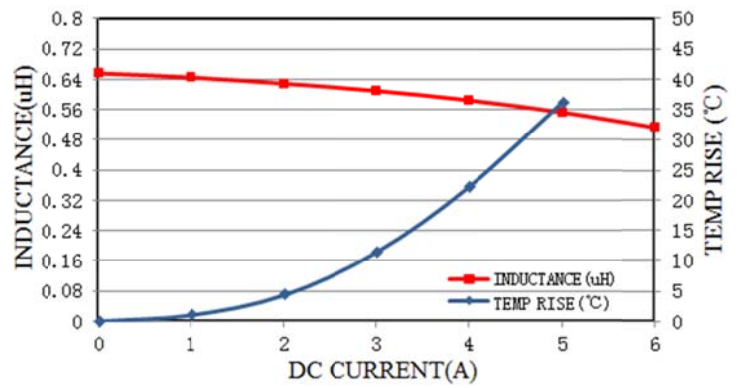
EM-24BM27V01-A1



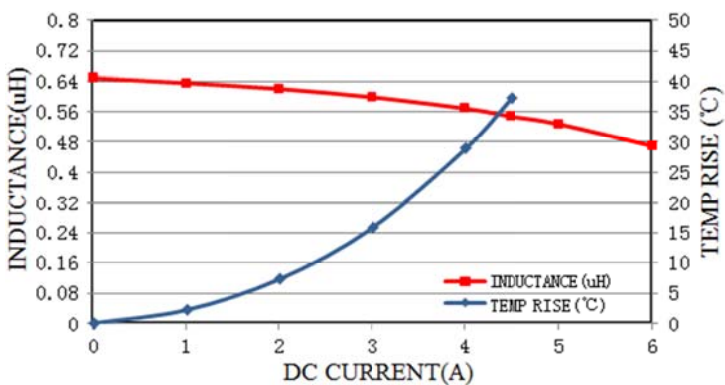
EM-47BM27V01



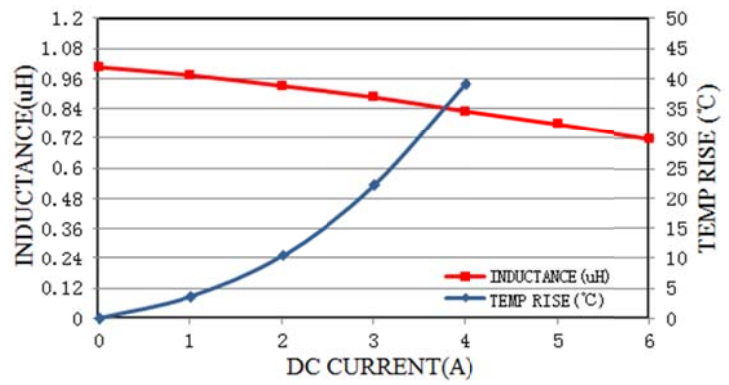
EM-60BM27V01-E5



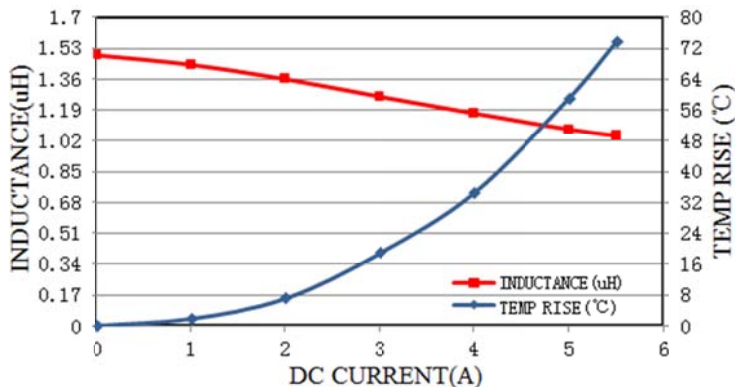
EM-68BM27V01



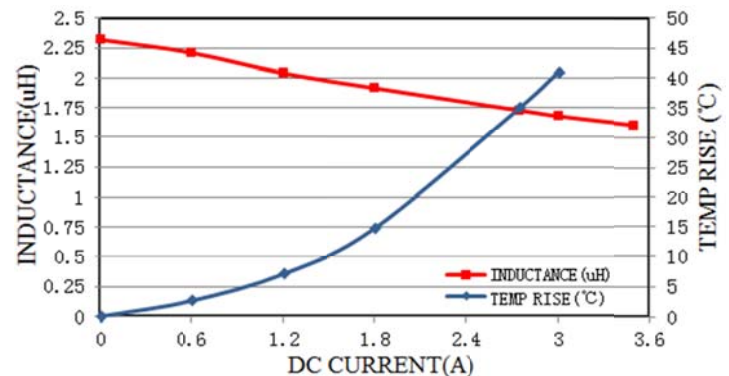
EM-10AM27V03



EM-15AM27V01

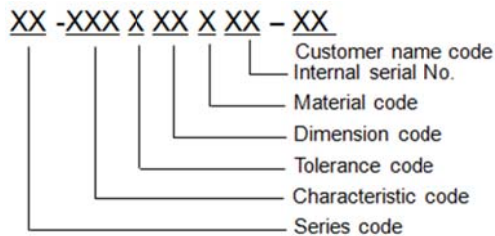
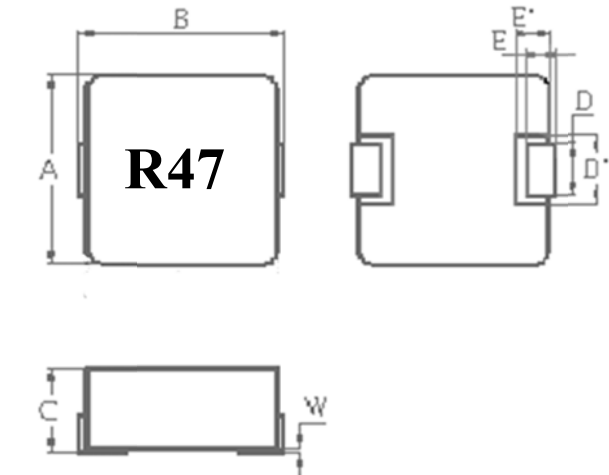


EM-22AM27V04



# SMD Alloy Molding Power Inductor EM-40V Series (4215):

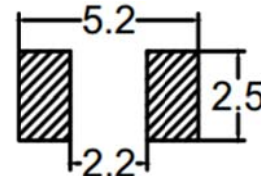
## 1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%  
M:±20% N:±30%

| Code | Dimensions(mm) |
|------|----------------|
| A:   | 4.2±0.25       |
| B:   | 4.4±0.35       |
| C:   | 1.3±0.2        |
| E:   | 0.8±0.3        |
| E':  | 1.0±0.1        |
| D :  | 2.0±0.3        |
| D' : | 2.5±0.2        |
| W:   | 0.15+0         |



SUGGEST PCB

## 2. SPECIFICATIONS

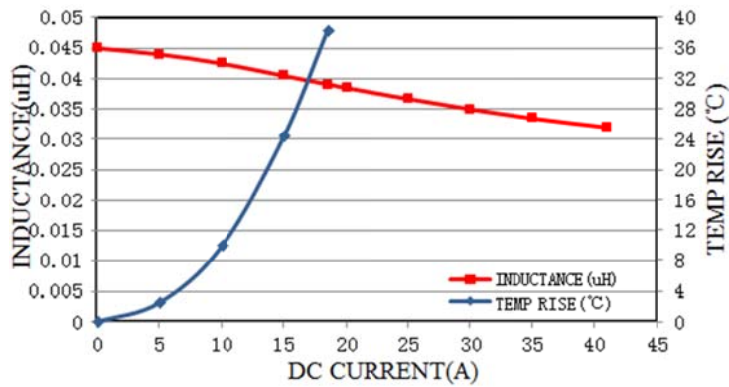
| Part Number  | Inductance L0(uH)±<br>20%@0A | Irms(A)<br>typ | Isat(A)<br>typ | DCR(mΩ)<br>@25℃ |
|--------------|------------------------------|----------------|----------------|-----------------|
| EM-47CM40V01 | 0.047                        | 18.5           | 41             | 2.2 ± 10%       |
| EM-47BM40V02 | 0.47                         | 6              | 11             | 17 ± 10%        |
| EM-15AM40V02 | 1.50                         | 3.5            | 4              | 40 ± 10%        |
| EM-22AM40V02 | 2.20                         | 3              | 5              | 79max           |
| EM-33AM40V01 | 3.30                         | 2.6            | 5.4            | 76 ± 20%        |

Note:

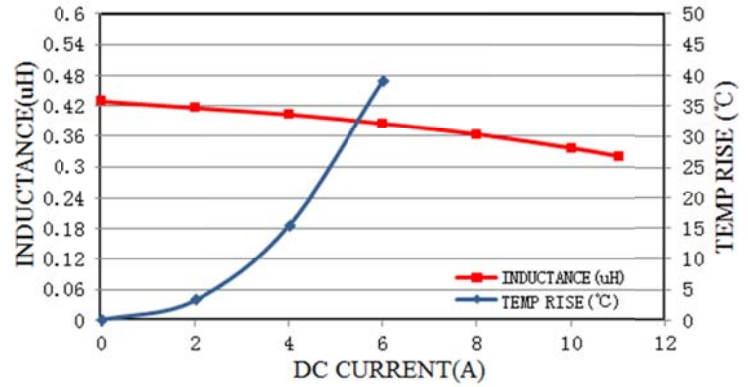
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

## 3. DC Bias Characteristics (Typical)

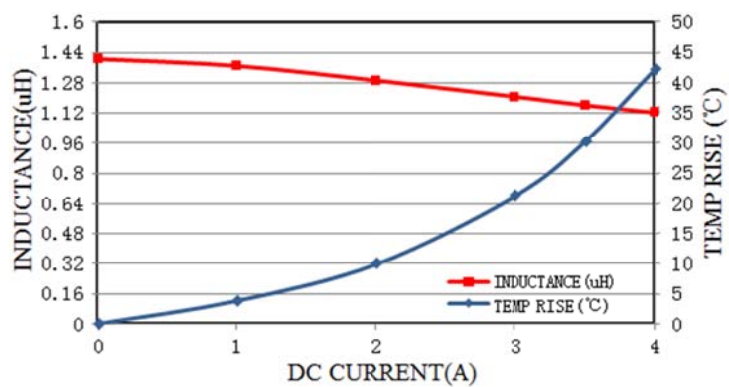
EM-47CM40V01



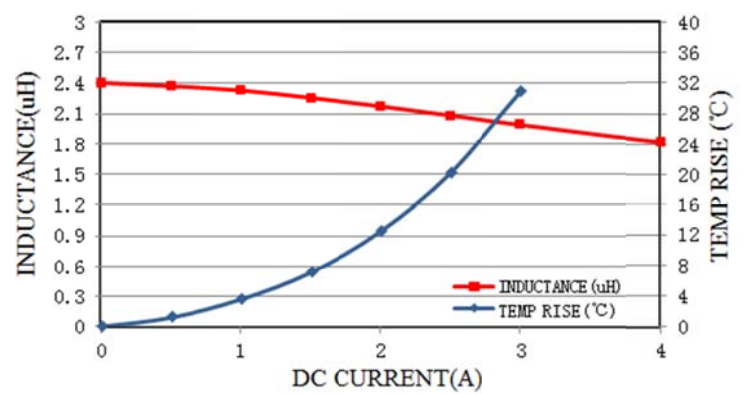
EM-47BM40V02



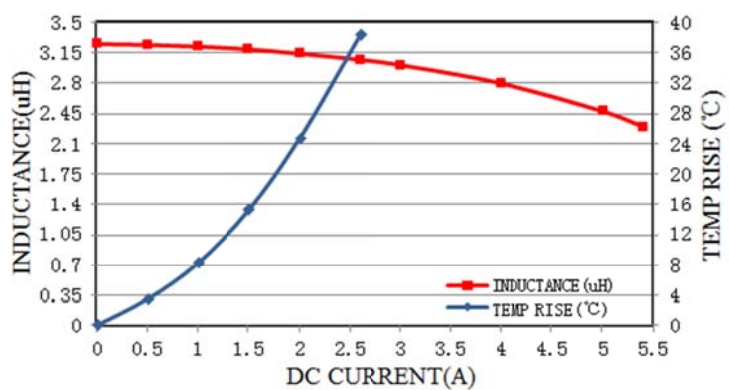
EM-15AM40V02



EM-22AM40V02

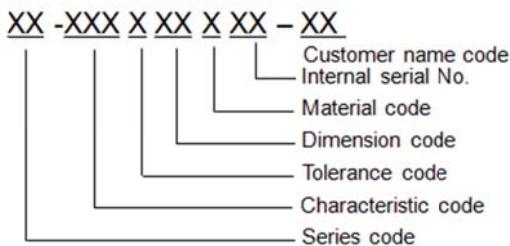
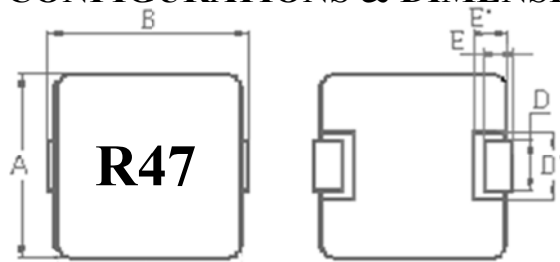


EM-33AM40V01



# SMD Alloy Molding Power Inductor EM-47V Series (4220):

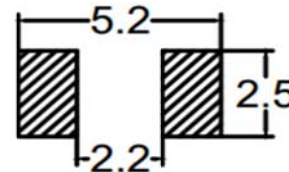
## 1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%  
M:±20% N:±30%

| Code | Dimensions(mm) |
|------|----------------|
| A:   | 4.2±0.25       |
| B:   | 4.4±0.35       |
| C:   | 1.8±0.2        |
| E:   | 0.8±0.3        |
| E':  | 1.0±0.1        |
| D :  | 2.0±0.3        |
| D' : | 2.5±0.2        |
| W:   | 0.15±0         |



SUGGEST PCB

## 2. SPECIFICATIONS

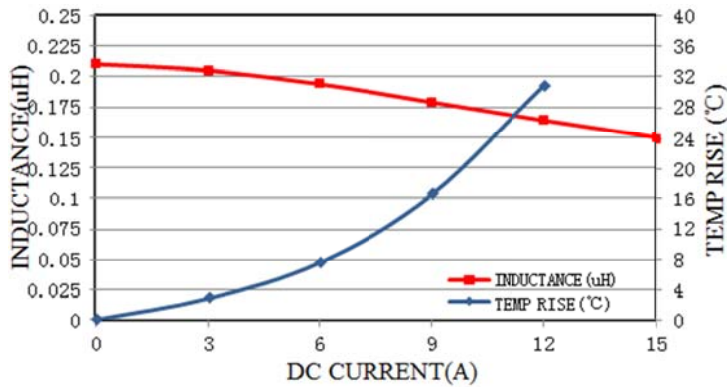
| Part Number  | Inductance L0(uH)±<br>20%@0A | Irms(A)<br>typ | Isat(A)<br>typ | DCR(mΩ)<br>@25°C |
|--------------|------------------------------|----------------|----------------|------------------|
| EM-22BM47V01 | 0.22                         | 12             | 15             | 6.0±10%          |
| EM-33BM47V01 | 0.33                         | 10             | 18             | 8.6max           |
| EM-47BM47V03 | 0.47                         | 7.5            | 12             | 12±7%            |
| EM-10AM47V01 | 1.00                         | 5              | 9              | 27max            |
| EM-15AM47V01 | 1.50                         | 4              | 6              | 46max            |
| EM-22AM47V01 | 2.20                         | 4              | 5              | 41±10%           |
| EM-33AM47V01 | 3.30                         | 3              | 4.5            | 87max            |
| EM-47AM47V01 | 4.70                         | 2.6            | 3.5            | 92±10%           |
| EM-68AM47V01 | 6.80                         | 2.5            | 2.7            | 135max           |
| EM-100M47V01 | 10.00                        | 1.7            | 2.7            | 240max           |

Note:

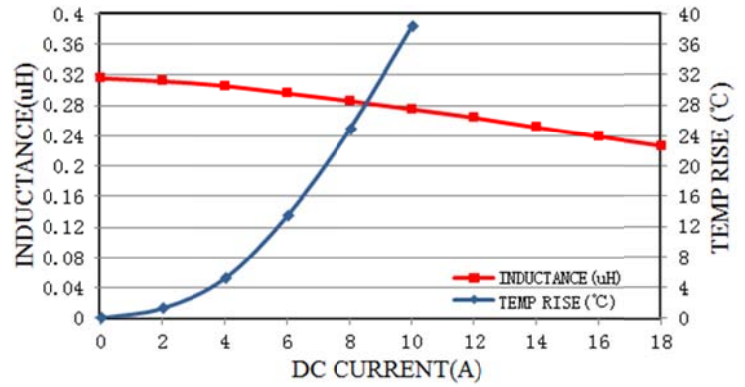
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~ +125°C.
8. Special inquiries besides the above common used types can be met on your requirement.

## 3. DC Bias Characteristics (Typical)

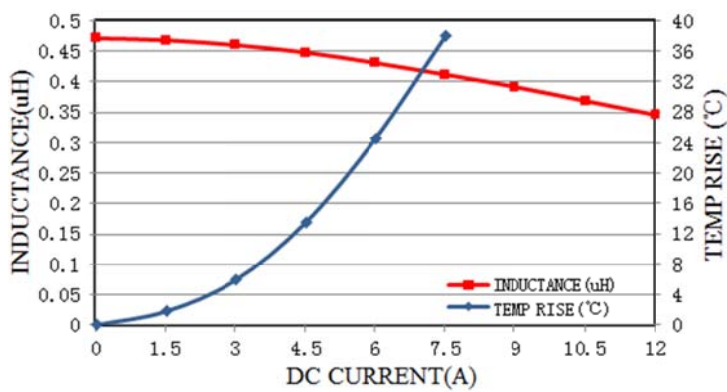
EM-22BM47V01



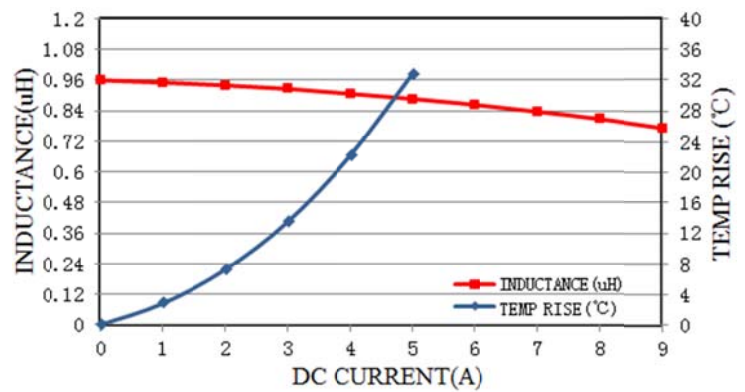
EM-33BM47V01



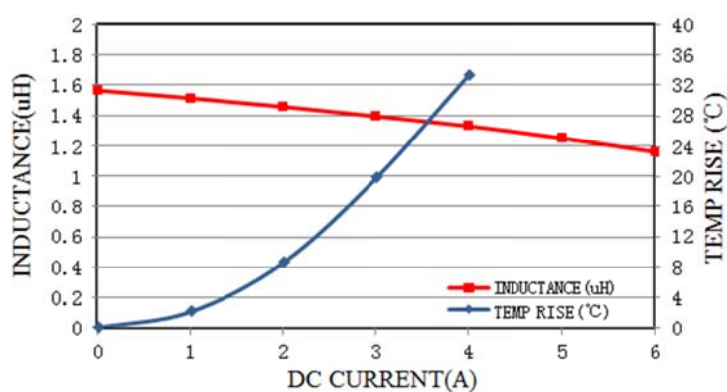
EM-47BM47V03



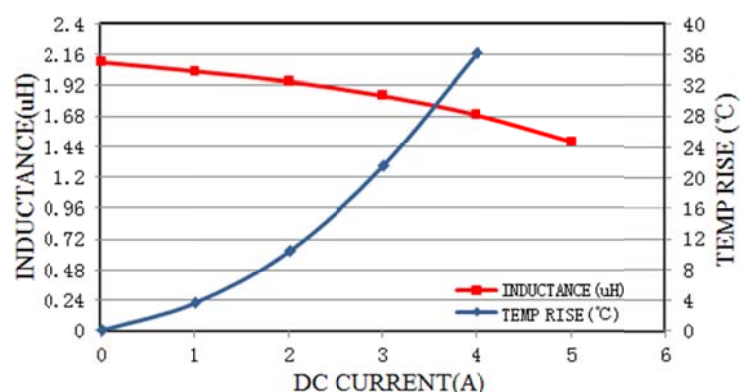
EM-10AM47V01



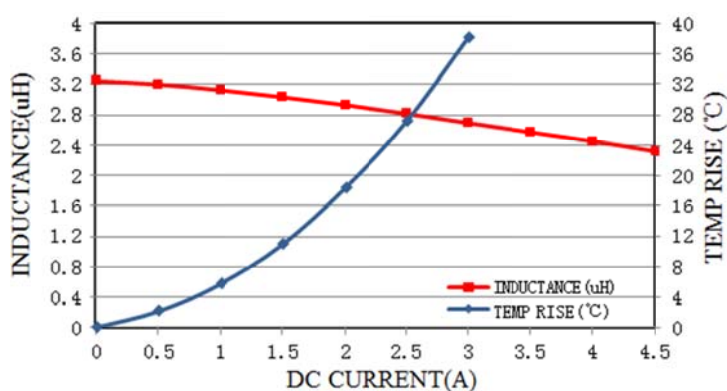
EM-15AM47V01



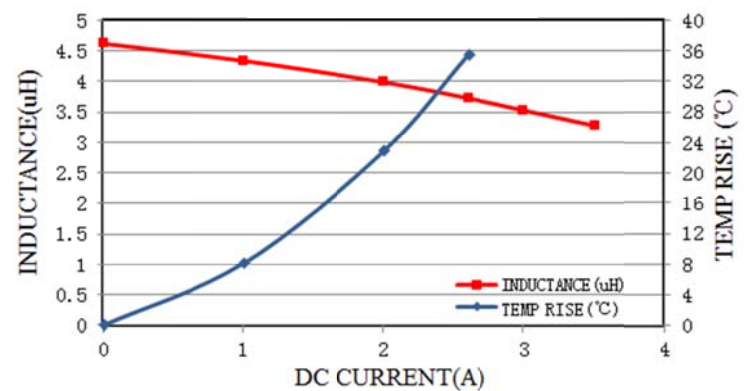
EM-22AM47V01



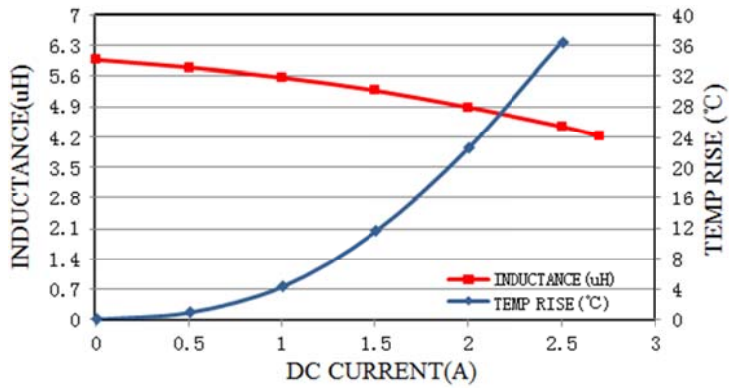
EM-33AM47V01



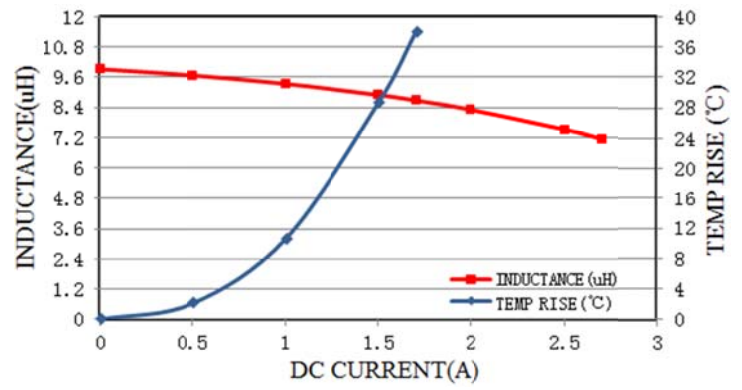
EM-47AM47V01



EM-68AM47V01

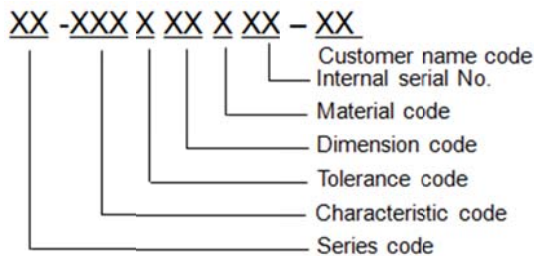
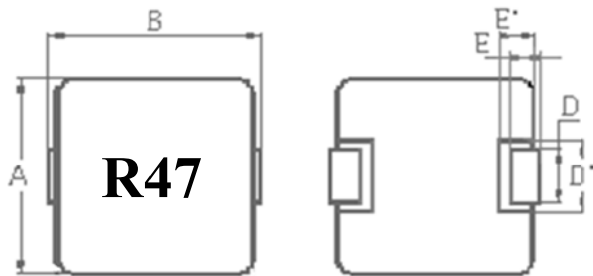


EM-100M47V01



# SMD Alloy Molding Power Inductor EM-48V Series (4230):

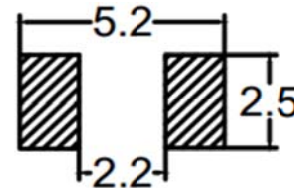
## 1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%  
M:±20% N:±30%

| Code | Dimensions(mm) |
|------|----------------|
| A:   | 4.2±0.25       |
| B:   | 4.4±0.35       |
| C:   | 2.8±0.2        |
| E:   | 0.8±0.3        |
| E':  | 1.0±0.1        |
| D :  | 2.0±0.3        |
| D' : | 2.5±0.2        |
| W:   | 0.15+0         |



SUGGEST PCB

## 2. SPECIFICATIONS

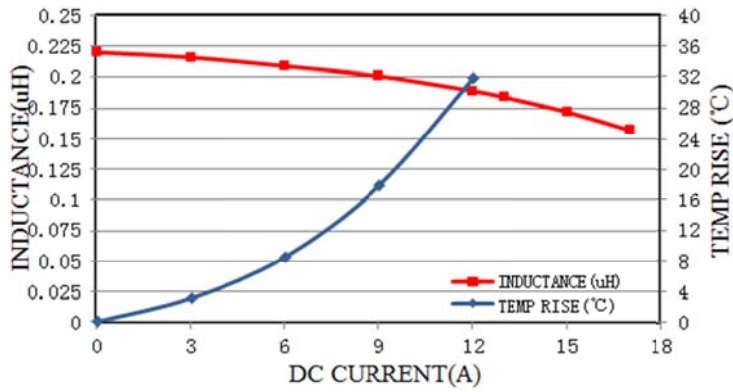
| Part Number  | Inductance L0(uH)±<br>20%@0A | Irms(A)<br>typ | Isat(A)<br>typ | DCR(mΩ)<br>@25℃ |
|--------------|------------------------------|----------------|----------------|-----------------|
| EM-22BM48V01 | 0.22                         | 13             | 17             | 7.0±10%         |
| EM-33BM48V01 | 0.33                         | 10             | 15             | 8.5±10%         |
| EM-47BM48V01 | 0.47                         | 8.8            | 12             | 9.2±10%         |
| EM-33AM48V01 | 3.30                         | 3.8            | 5              | 35±20%          |
| EM-47AM48V01 | 4.70                         | 3.6            | 4.5            | 63max           |

Note:

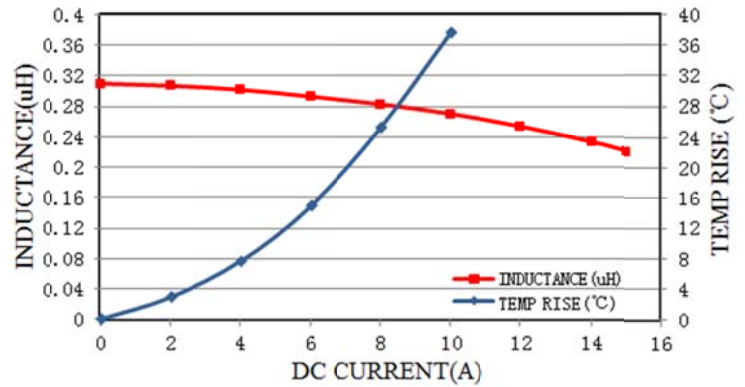
- Test frequency: L: 100 KHz /1.0v.
- All test data referenced to 25℃ ambient.
- Temperature Rise Current: ΔT 40℃ approximately at Irms.
- Saturation Rated Current: Inductance drop approximately 30% at Isat.
- Storage temp.: -40℃ ~ 85℃.
- Storage R.H: 20% ~ 75%.
- Operating temp.: -55℃~ +125℃.
- Special inquiries besides the above common used types can be met on your requirement.

## 3. DC Bias Characteristics (Typical)

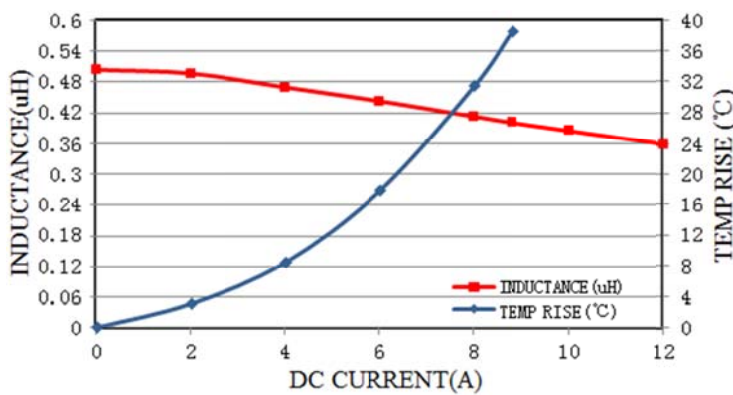
EM-22BM48V01



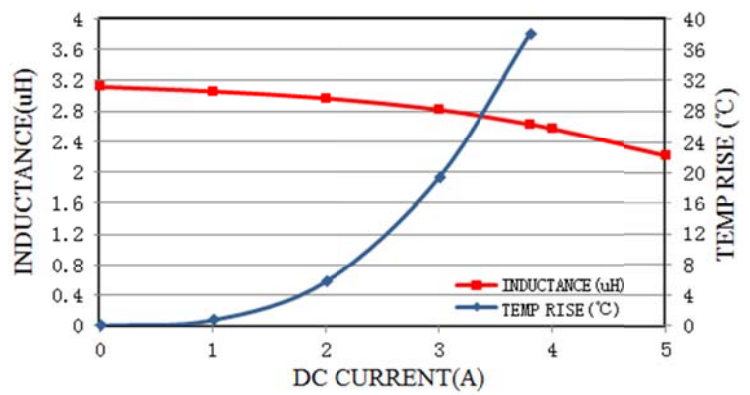
EM-33BM48V01



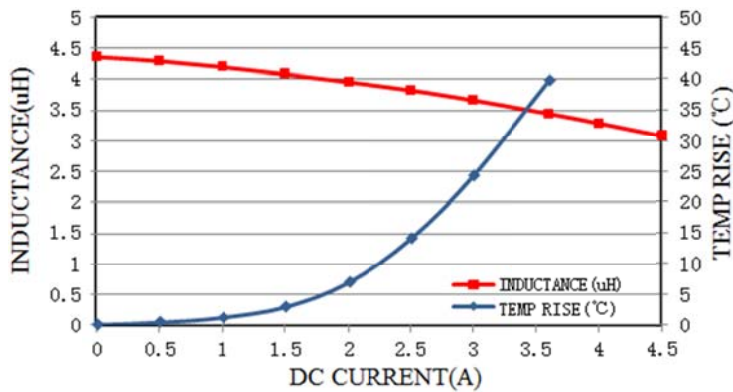
EM-47BM48V01



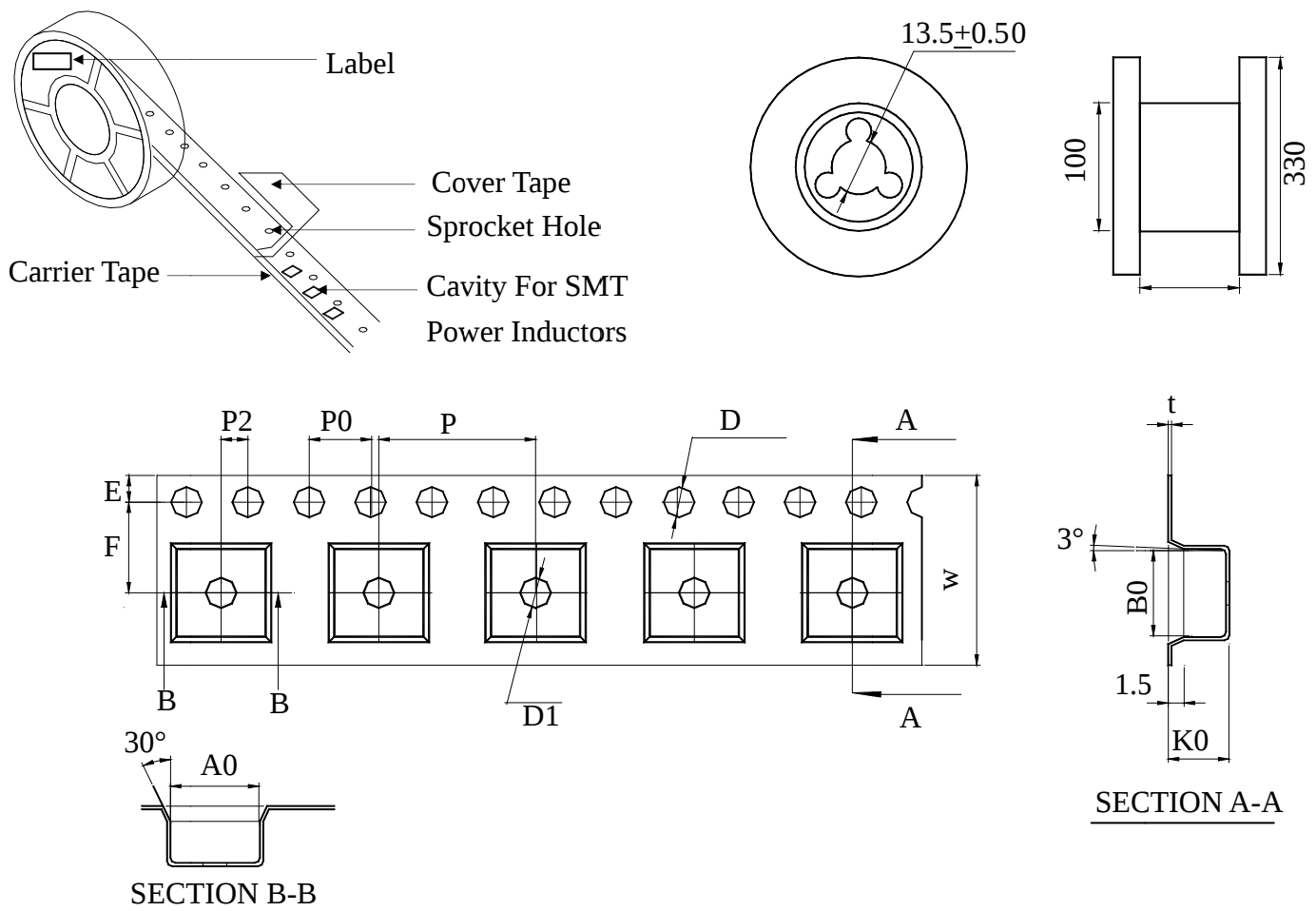
EM-33AM48V01



EM-47AM48V01



#### 4. PACKAGING SPECIFICATION (unit: mm) :



|             | W               | P        | E         | F         | A0       | B0       | K0       | t         |
|-------------|-----------------|----------|-----------|-----------|----------|----------|----------|-----------|
| 4210/EM-73V | 12.0+0.10/-0.30 | 8.0±0.10 | 1.75±0.10 | 5.50±0.10 | 4.4±0.10 | 4.7±0.10 | 1.5±0.10 | 0.35±0.05 |
| 4212/EM-27V | 12.0+0.10/-0.30 | 8.0±0.10 | 1.75±0.10 | 5.50±0.10 | 4.4±0.10 | 4.7±0.10 | 1.5±0.10 | 0.35±0.05 |
| 4215/EM-40V | 12.0+0.10/-0.30 | 8.0±0.10 | 1.75±0.10 | 5.50±0.10 | 4.4±0.10 | 4.7±0.10 | 1.8±0.10 | 0.35±0.05 |
| 4220/EM-47V | 12.0+0.10/-0.30 | 8.0±0.10 | 1.75±0.10 | 7.50±0.10 | 4.7±0.10 | 4.7±0.10 | 2.5±0.10 | 0.35±0.05 |
| 4230/EM-48V | 12.0+0.10/-0.30 | 8.0±0.10 | 1.75±0.10 | 7.50±0.10 | 4.4±0.10 | 4.7±0.10 | 3.2±0.10 | 0.35±0.05 |

|             | Chip / Reel |
|-------------|-------------|
| 4210/EM-73V | 2000 pcs    |
| 4212/EM-27V | 2000 pcs    |
| 4215/EM-40V | 2000 pcs    |
| 4220/EM-47V | 2000 pcs    |
| 4230/EM-48V | 2000 pcs    |