

## Shielded Drum Compact Package Low Cost Inductors

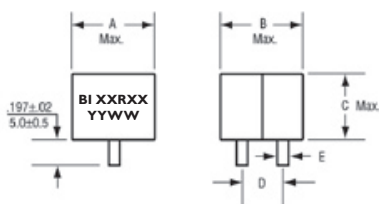
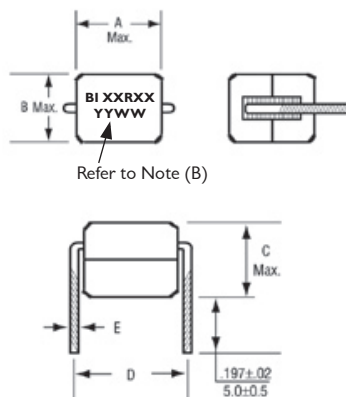
- Operating Temperature Range -40°C to +155°C
- Ambient Temperature, Maximum 100°C
- Temperature Rise, Maximum 50°C
- Insulation System Class F, 155°C

### Specifications

| Part Number | Inductance                      |  |         | $I_{rated}^{(1)}$<br>(A dc) | $I_{sat}^{(2)}$<br>(A dc) | DCR <sup>(3)</sup><br>mΩ ± 5% | Dim D.<br>(mm ± 0.5) | Dim. E<br>(mm ± 0.1) | Fig. |
|-------------|---------------------------------|--|---------|-----------------------------|---------------------------|-------------------------------|----------------------|----------------------|------|
|             | 100 kHz<br>@ 0 A dc<br>μH ± 10% | 100 kHz, 0.1 V<br>@ $I_{rated}$<br>μH Min. | μH Typ. |                             |                           |                               |                      |                      |      |
| HM55-12R40  | 0.40                            | 0.32                                       | 0.35    | 20                          | 29                        | 1.00                          | 8.76                 | 1.30                 | 2    |
| HM55-14R40  | 0.40                            | 0.32                                       | 0.35    | 15                          | 38                        | 1.75                          | 8.40                 | 1.00                 | 2    |
| HM55-21R43  | 0.43                            | 0.36                                       | 0.40    | 18                          | 27                        | 0.77                          | 4.10                 | 1.30                 | 1    |
| HM55-21R95  | 0.95                            | 0.76                                       | 0.84    | 22.5                        | 33                        | 1.28                          | 6.90                 | 1.30                 | 1    |
| HM55-211R3  | 1.38                            | 1.10                                       | 1.25    | 15                          | 22                        | 2.26                          | 6.60                 | 1.05                 | 1    |
| HM55-22R79  | 0.79                            | 0.56                                       | 0.63    | 27                          | 39                        | 1.20                          | 12.5                 | 1.45                 | 2    |
| HM55-24R28  | 0.28                            | 0.21                                       | 0.25    | 30                          | 85                        | 0.72                          | 12.7                 | 1.30                 | 2    |
| HM55-26R50  | 0.50                            | 0.36                                       | 0.40    | 40                          | 50                        | 0.90                          | 12.7                 | 1.50                 | 2    |
| HM55-311R4  | 1.40                            | 1.08                                       | 1.20    | 35                          | 50                        | 0.98                          | 6.60                 | 1.65                 | 1    |
| HM55-313R0  | 3.00                            | 2.43                                       | 2.70    | 21                          | 30                        | 2.60                          | 9.45                 | 1.30                 | 1    |
| HM55-315R6  | 5.60                            | 4.86                                       | 5.40    | 9                           | 14                        | 7.30                          | 7.11                 | 0.91                 | 1    |
| HM55-321R0  | 1.0                             | 0.72                                       | 0.80    | 40                          | 56                        | 1.25                          | 15.24                | 1.50                 | 2    |

- Notes: (1) Rate current,  $I_{rated}$ , is the approximate DC current at which inductance will be decreased by 20% from its initial (zero DC) value or the current at which  $\Delta T = 50^\circ C$ , whichever is lower.  
 (2)  $I_{sat}$  is the saturation current at which inductance rolls off approximately 30% from its initial value.  
 (3) DC resistance is measured at 25°C.

### Outline Dimensions (Inch/mm)

**Figure 1**

**Figure 2**


- Notes: (A) Refer to Specifications table for 'D' & 'E' dimensions of each model.  
 (B) For case size 12 & 14, only BI logo & datecode will be printed.

| Case Size | Fig. | A    | B    | C    |
|-----------|------|------|------|------|
| 12        | 2    | .295 | .295 | .433 |
|           |      | 7.50 | 7.50 | 11.0 |
| 14        | 2    | .295 | .295 | .295 |
|           |      | 7.50 | 7.50 | 7.50 |
| 21        | 1    | .413 | .433 | .413 |
|           |      | 10.5 | 11.0 | 10.5 |
| 22        | 2    | .413 | .413 | .413 |
|           |      | 10.5 | 10.5 | 10.5 |
| 24        | 2    | .413 | .413 | .295 |
|           |      | 10.5 | 10.5 | 7.50 |
| 26        | 2    | .413 | .413 | .355 |
|           |      | 10.5 | 10.5 | 9.00 |
| 31        | 1    | .532 | .543 | .532 |
|           |      | 13.5 | 13.8 | 13.5 |
| 32        | 2    | .532 | .532 | .492 |
|           |      | 13.5 | 13.5 | 12.5 |

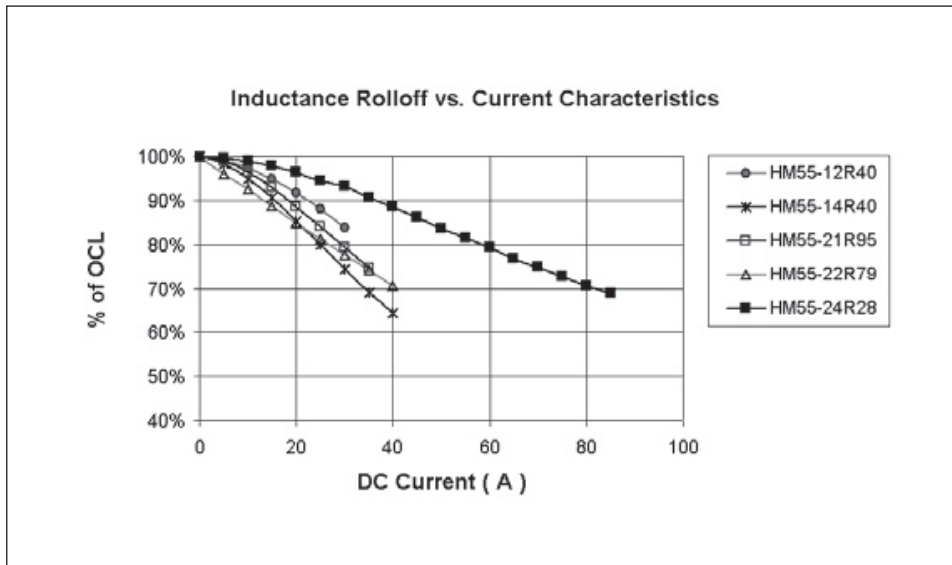
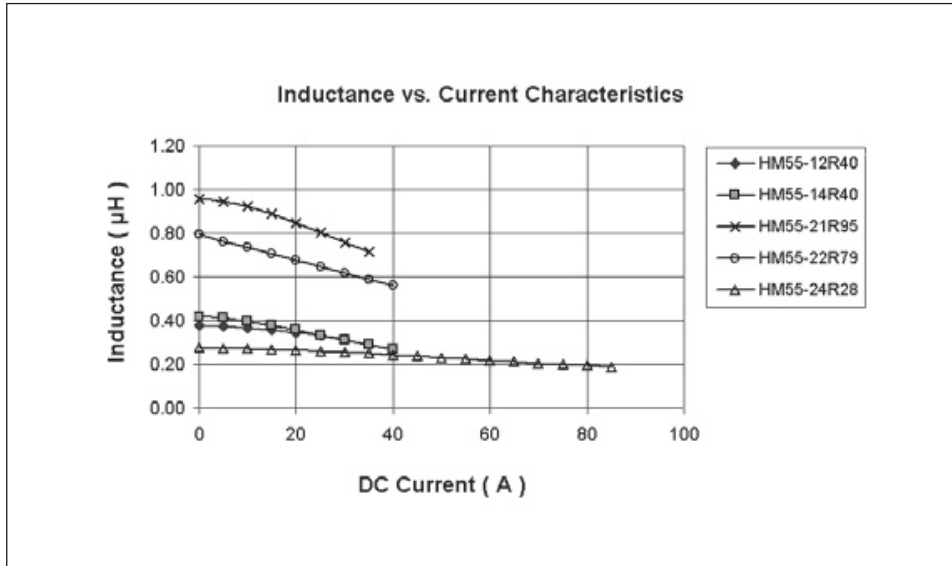
### Packaging

**Standard: Vacuum Tray**

| Case Size  | Capacity Per Tray<br>(Units) | Capacity Per Carton<br>(Units) |
|------------|------------------------------|--------------------------------|
| 12, 14, 21 | 40                           | 560                            |
| 22         | 44                           | 660                            |
| 24         | 50                           | 600                            |
| 26         | 45                           | 630                            |
| 31, 32     | 44                           | 572                            |

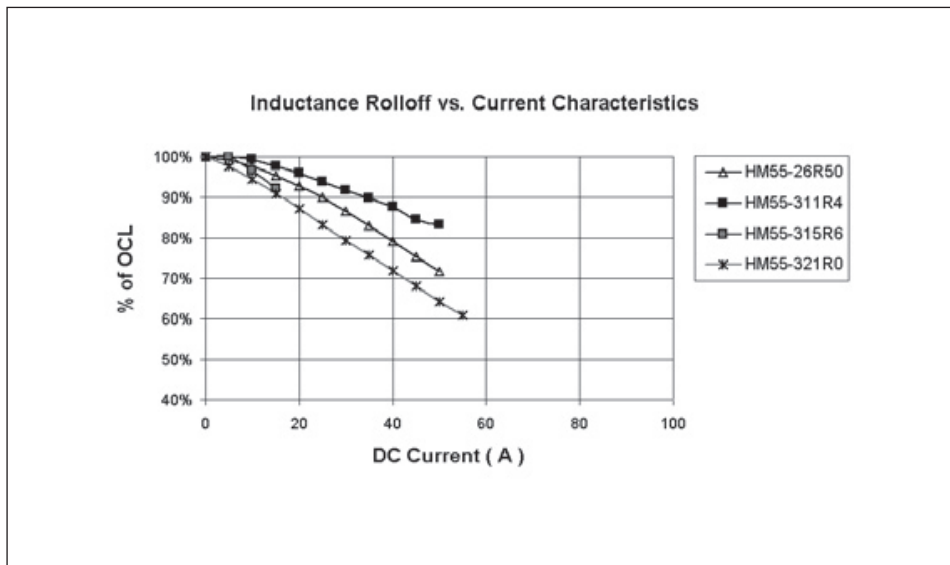
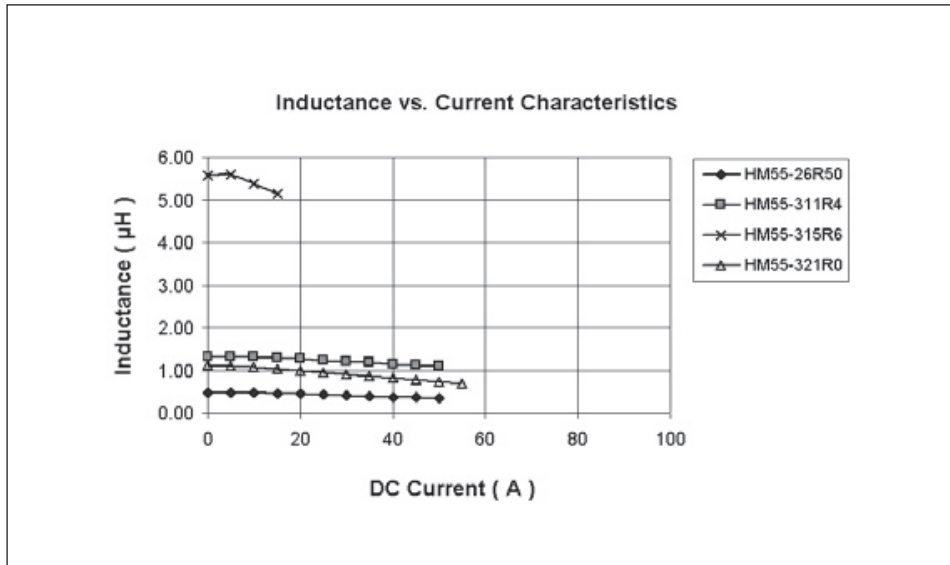
**Electrical Characteristics @ 25 °C**

(A) Case size 12, 14, 21, 22 & 24



## Electrical Characteristics @ 25 °C (Cont'd)

(B) Case size 26, 31 & 32



## Ordering Information

