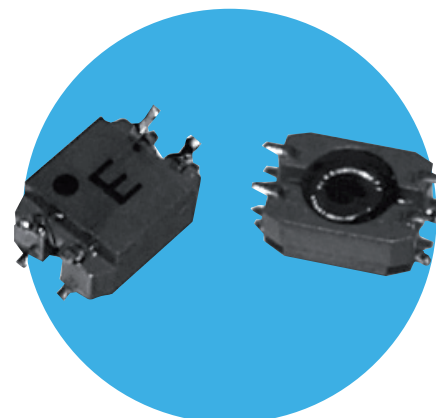


## Surface Mount Common Mode Chokes

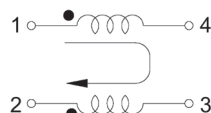
### Model HM67 Series

#### Features

- Operating Temperature Range -40°C to +125°C
- Temperature Rise, Maximum 40°C
- Dielectric Withstanding Voltage 300Vdc
- RoHS Compliant



### Schematics



### Specification

| Part Number                 | Terminals | Common Mode Inductance<br>@100 kHz - 0.1 V<br>(1-4 or 2-3) $\mu$ H | Inductance Leakage<br>@100 kHz - 0.1 Vrms<br>(1-4) <sup>(1)</sup> Typ. $\mu$ H | Rated<br>Current<br>mA | DCR <sup>(2)</sup><br>Max $\Omega$ | Marking<br>Code | Figure |
|-----------------------------|-----------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------|------------------------------------|-----------------|--------|
| HM67-B5R0LF                 | 1-4, 2-3  | 5.0 $\pm$ 30%                                                      | 0.08                                                                           | 1000                   | 0.12                               | A               | 1      |
| HM67-B110LF                 | 1-4, 2-3  | 11.0 $\pm$ 30%                                                     | 0.10                                                                           | 500                    | 0.15                               | B               | 1      |
| HM67-S250LF                 | 1-4, 2-3  | 25.0 $\pm$ 30%                                                     | 1.60                                                                           | 500                    | 0.18                               | C               | 1      |
| HM67-B510LF                 | 1-4, 2-3  | 51.0 $\pm$ 30%                                                     | 1.90                                                                           | 500                    | 0.10                               | D               | 1      |
| HM67-S510LF                 | 1-4, 2-3  | 51.0 $\pm$ 30%                                                     | 2.80                                                                           | 500                    | 0.25                               | E               | 1      |
| HM67-B471LF                 | 1-4, 2-3  | 470.0 $\pm$ 30%                                                    | 0.80                                                                           | 500                    | 0.28                               | F               | 1      |
| HM67-B102 <sup>(3)</sup> LF | 1-4, 2-3  | 1000.0 +50%,-30%                                                   | 0.16                                                                           | 500                    | 0.30                               | G               | 1      |
| HM67-B222 <sup>(3)</sup> LF | 1-4, 2-3  | 2200.0 +50%,-30%                                                   | 0.16                                                                           | 400                    | 0.42                               | H               | 1      |
| HM67-B472 <sup>(3)</sup> LF | 1-4, 2-3  | 4700.0 +50%,-30%                                                   | 0.24                                                                           | 200                    | 0.67                               | I               | 1      |
| HM67-10510LF                | 1-4, 2-3  | 51.0 $\pm$ 30% <sup>(4)</sup>                                      | 2.40 <sup>(4)</sup>                                                            | 200                    | 0.403                              | 0510            | 2      |

Notes: (1) Leakage inductance is measured with pin 2 & 3 shorted.  
 (2) DC resistance is measured at 25°C.  
 (3) Maximum operating temperature is +85°C.  
 (4) Common mode inductance & leakage inductance of HM67-10510LF are measured at 100 kHz, 0.05V

### Packaging

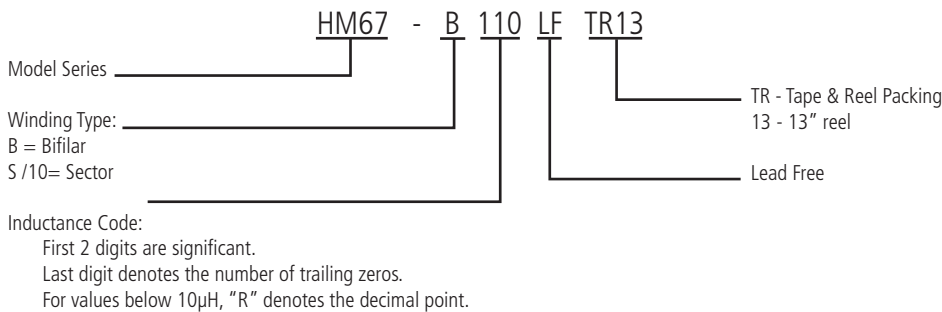
|           |                        |              |                 |
|-----------|------------------------|--------------|-----------------|
| Standard: | Embossed Tape and Reel |              |                 |
|           | Reel:                  | Diameter:    |                 |
|           |                        | Figure 1 & 2 | = 13" (330.2mm) |
|           |                        | Capacity:    |                 |
|           |                        | Figure 1     | = 400 Units     |
|           |                        | Figure 2     | = 2000 Units    |

#### General Note

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Model HM67 Series

## Ordering Information



## Outline Dimensions (Inch/mm)

Figure 1

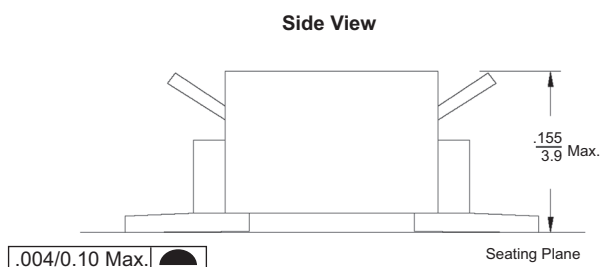
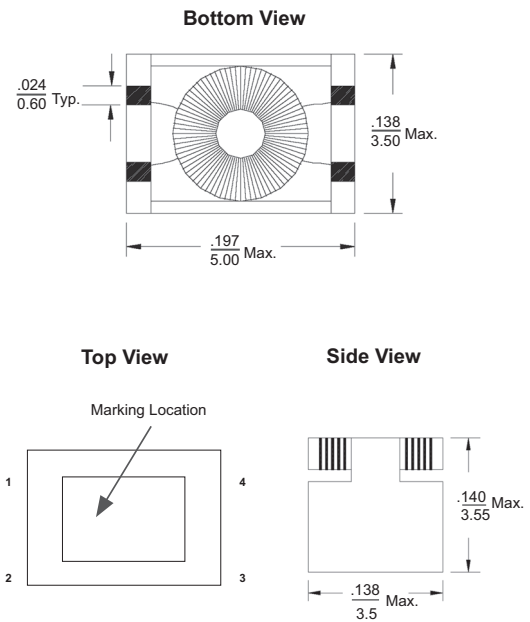
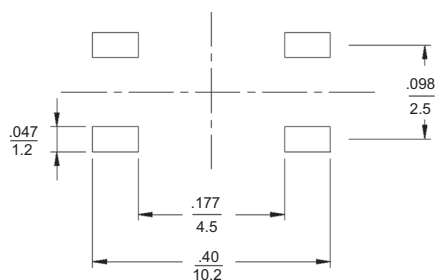


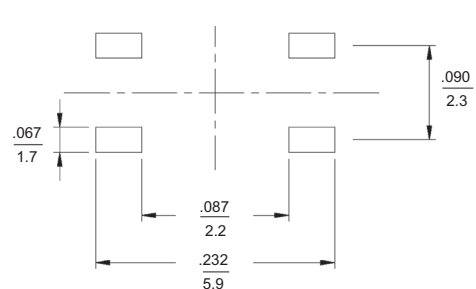
Figure 2



Recommended Solder Pad Layout



Recommended Solder Pad Layout



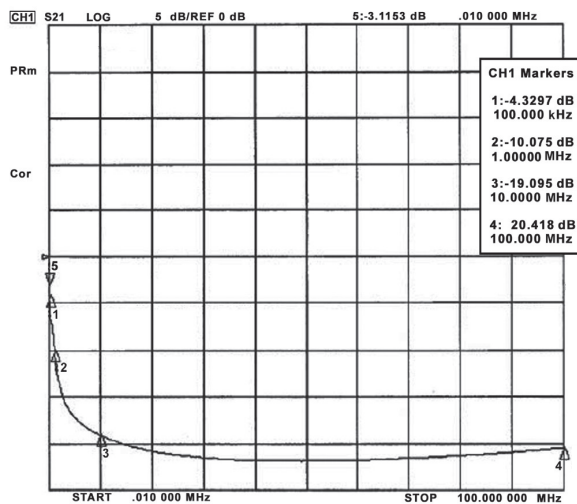
### General Note

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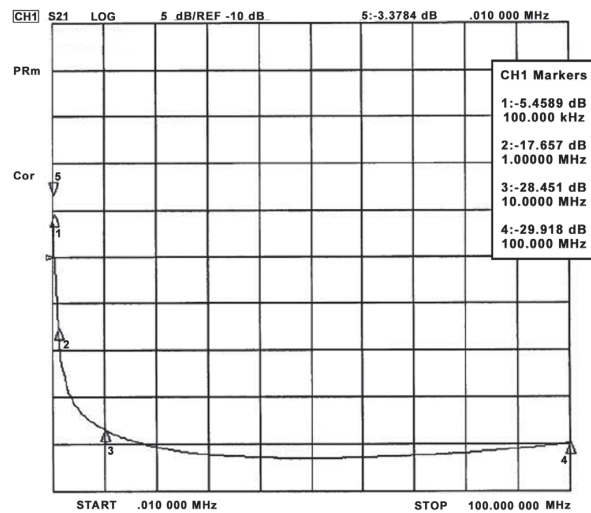
## Electrical Characteristics @ 25°C

(A) Attenuation vs. Frequency Graphs

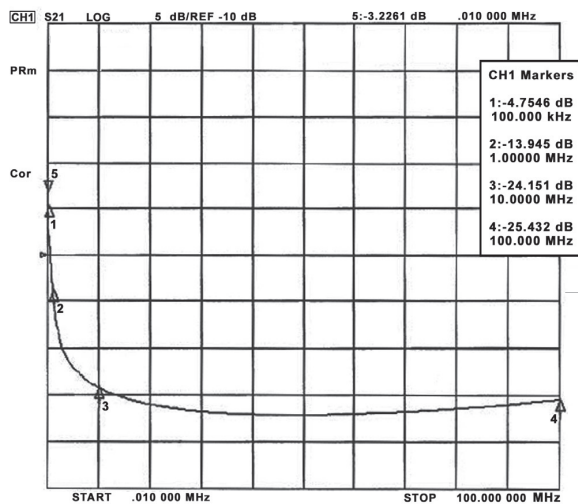
**HM67-B5R0LF**



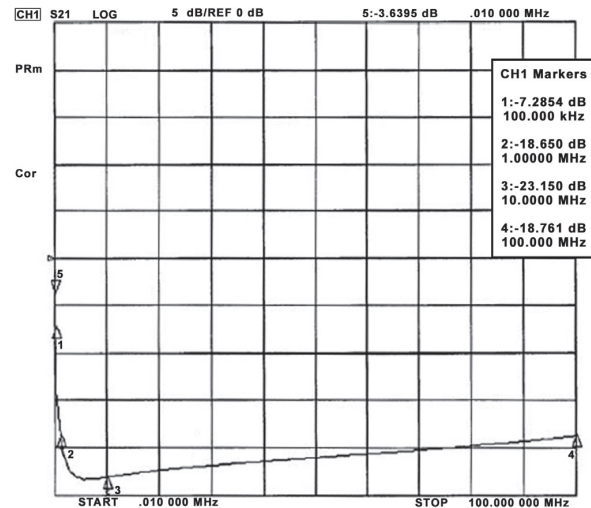
**HM67-S250LF**



**HM67-B110LF**



**HM67-B510LF**

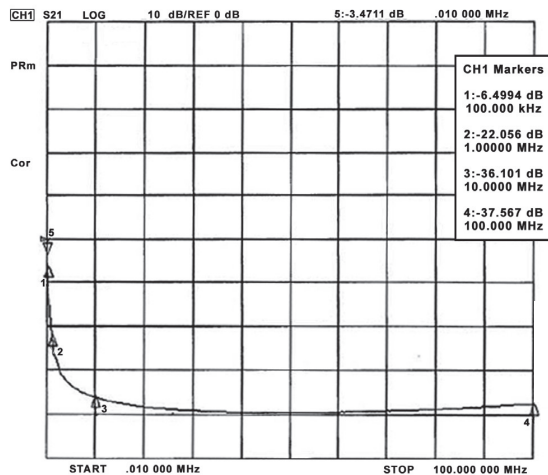


### General Note

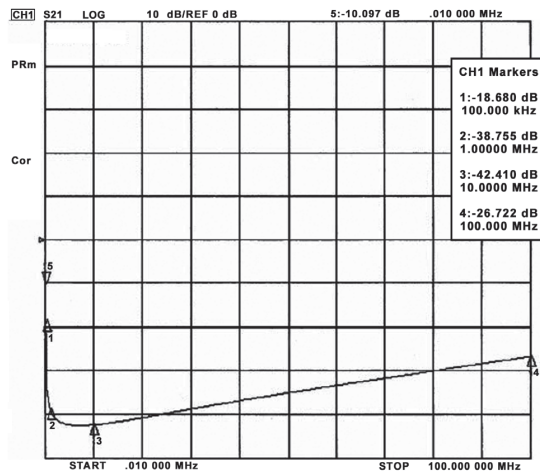
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## Electrical Characteristics @ 25°C (Continued)

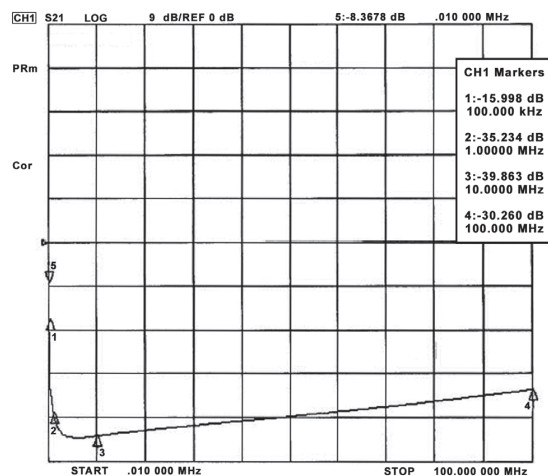
**HM67-S510LF**



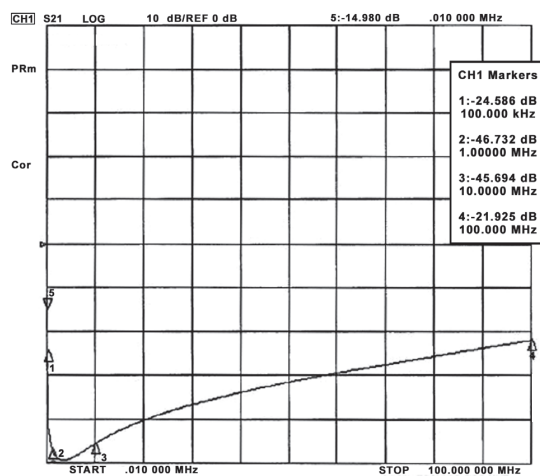
**HM67-B102LF**



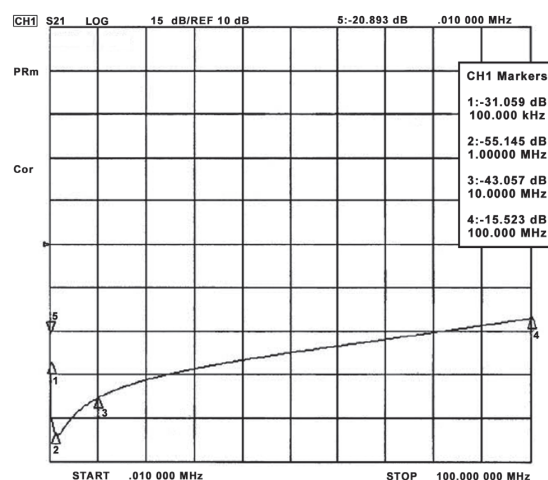
**HM67-B471LF**



**HM67-B222LF**



**HM67-B472LF**

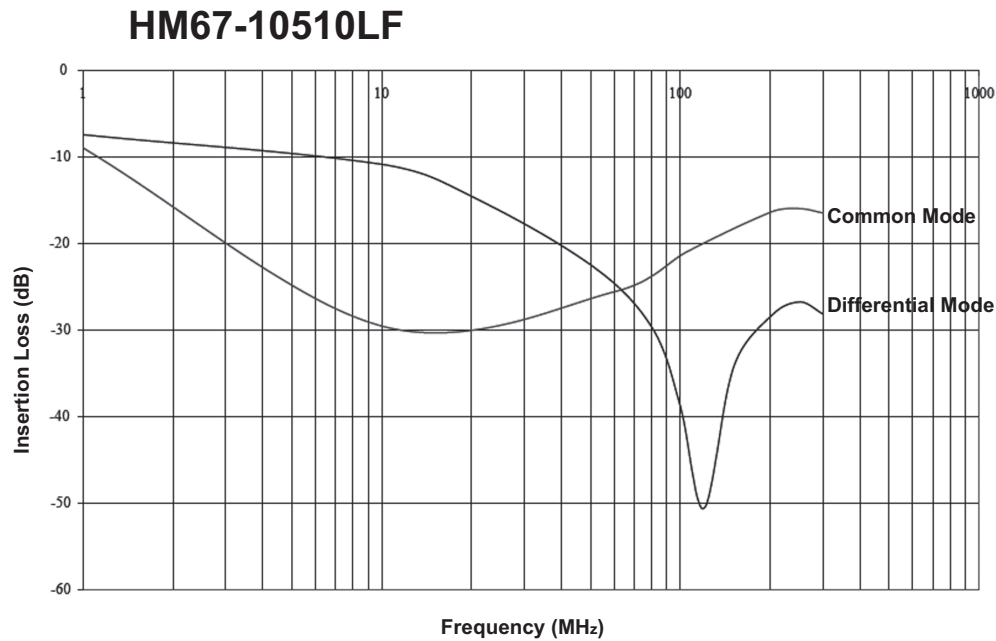


### General Note

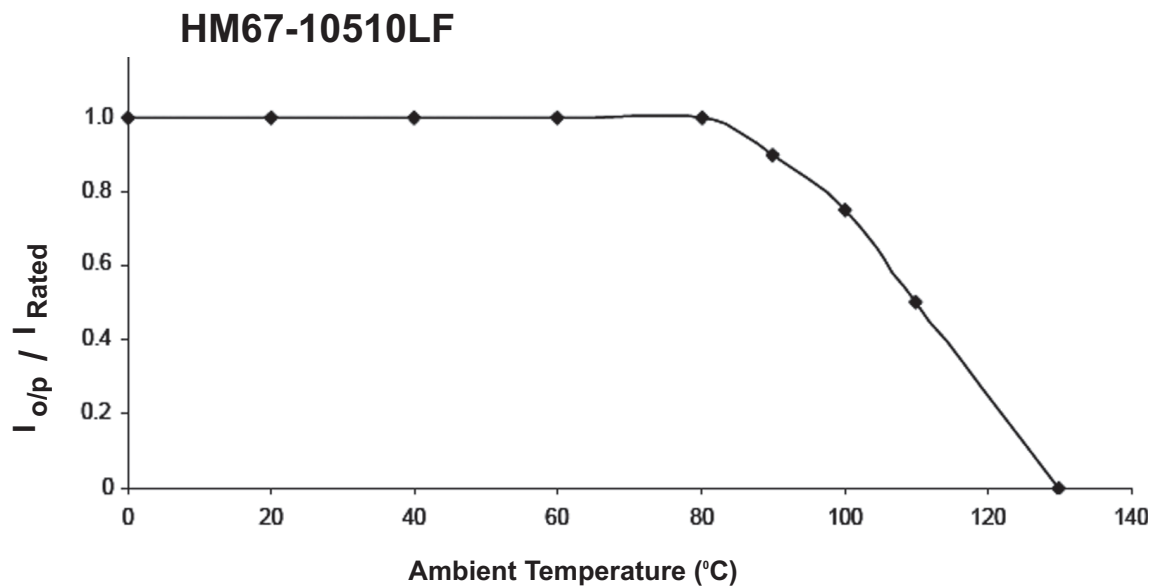
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Electrical Characteristics @ 25°C (Continued)

(B) Insertion Loss vs. Frequency Graph



(C) Current Derating Curve



General Note

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