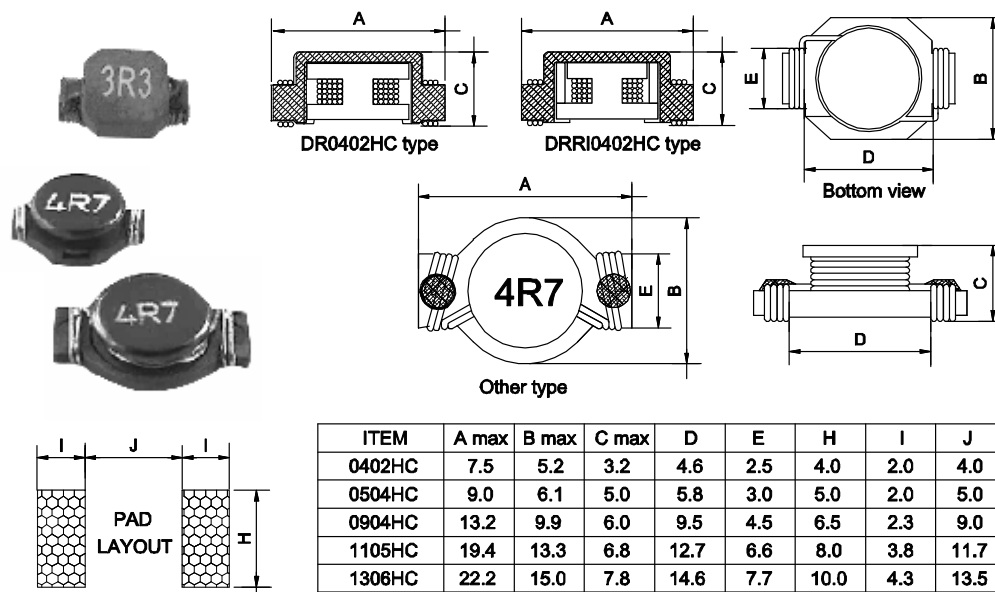


**Shape and Size : (Dimensions are in mm)**

**Features :**

- Miniature surface mount design.
- High power , High saturation inductors.
- Very low resistance .
- Maximum power density.
- Ideal inductors for DC-DC conversion .
- Meets UL 94V-0 flammability standard .
- Available on tape and reel for auto surface mounting.

**Ordering Information :**
**SMT DR1105 HC - 4R7 M**

- (1) (2) (3) (4) (5)
- (1)Type : Surface Mountable Type.
- (2)Style : DR Core : OD=11.0mm HT=5.0mm.
- (3)HC : High Current.
- (4)Inductance : 4R7 for 4.7 uH.
- (5)Inductance tolerance : M : ±20% .N:+40% -20%.

**Inductance and rated current ranges :**

- SMTDR0402HC 0.47~22uH 6.0~0.7A
- SMTDRRI0402HC 0.47~22uH 2.5~0.34A
- SMTDR0504HC 0.47~100uH 6.0~0.47A
- SMTDR0904HC 0.47~100uH 10.6~1.2A
- SMTDR1105HC 0.47~100uH 16.0~1.4A
- SMTDR1306HC 0.47~100uH 19.2~2.0A

**Characteristics :**

- I sat: The current when the inductance becomes 30%(0402HC is 10%) lower than its initial value. (Ta=20°C)
- I rms: The current when temperature of coil increases up to Max. ΔT=40°C. (Ta=20°C)
- Operating temp. : -40°C to 85°C

**Applications :**

- Test equipment :  
 L : Agilent 4284A Precision LCR meter.  
 DCR : Milli-ohm meter .
- Electrical specifications at 25°C.

- Personable computers.
- DC/DC converters, etc.
- LCD televisions.
- Power supply for VTRs.
- Other various electronic appliances.

Part No.	L ( $\mu$ H)	DCR Max. (mOHM)		I rms (A)		I sat (A)	
		DR0402HC	DRRI0402HC	DR0402HC	DRRI0402HC	DR0402HC	DRRI0402HC
R47N	0.47	25	5	6.0	8.0	7.7	2.5
<b>1R0M</b>	<b>1.0</b>	<b>50</b>	<b>40</b>	<b>2.9</b>	<b>3.0</b>	<b>2.9</b>	<b>1.7</b>
1R5M	1.5	50	45	2.8	2.8	2.6	1.4
2R2M	2.2	70	50	2.4	1.8	2.3	1.2
3R3M	3.3	80	55	2.0	1.6	2.0	0.90
4R7M	4.7	90	60	1.5	1.4	1.5	0.75
6R8M	6.8	130	65	1.4	1.2	1.2	0.62
<b>100M</b>	<b>10</b>	<b>160</b>	<b>75</b>	<b>1.1</b>	<b>1.0</b>	<b>1.1</b>	<b>0.50</b>
150M	15	230	90	1.0	0.8	0.9	0.40
220M	22	370	110	0.8	0.7	0.7	0.34

Part No.	L	0504HC	0904HC	0504HC	0904HC	0504HC	0904HC
R47N	0.47	10.0	5	6.0	10.6	7.7	11.4
<b>1R0N</b>	<b>1.0</b>	<b>18</b>	<b>7</b>	<b>4.4</b>	<b>9.3</b>	<b>5.3</b>	<b>9.9</b>
1R5N	1.5	20	9	4.2	8.3	4.5	7.9
2R2M	2.2	37	11	3.1	7.2	3.5	6.1
3R3M	3.3	43	13	2.9	6.5	3.0	5.1
4R7M	4.7	55	17	2.2	5.5	2.6	4.2
6R8M	6.8	90	21	1.7	5.0	2.2	3.6
<b>100M</b>	<b>10</b>	<b>111</b>	<b>28</b>	<b>1.5</b>	<b>4.3</b>	<b>1.9</b>	<b>3.3</b>
150M	15	175	41	1.2	3.5	1.5	2.4
220M	22	255	62	1.0	2.8	1.2	2.0
330M	33	367	92	0.82	2.1	0.99	1.7
470M	47	474	139	0.72	1.7	0.87	1.4
680M	68	750	179	0.58	1.5	0.67	1.2
<b>101M</b>	<b>100</b>	<b>1110</b>	<b>271</b>	<b>0.47</b>	<b>1.2</b>	<b>0.53</b>	<b>0.95</b>

Part No.	L	1105HC	1306HC	1105HC	1306HC	1105HC	1306HC
R47N	0.47	3.0	2	16.0	19.2	25.1	51.7
<b>1R0N</b>	<b>1.0</b>	<b>4.0</b>	<b>3</b>	<b>12.5</b>	<b>17.3</b>	<b>15.3</b>	<b>37.8</b>
1R5N	1.5	6.0	4	10.0	13.4	12.0	28.9
2R2M	2.2	8.0	5	9.2	12.0	10.2	23.7
3R3M	3.3	9.0	6	8.0	11.0	9.3	20.2
4R7M	4.7	12	10	6.5	8.6	7.7	15.6
6R8M	6.8	19	15	5.8	8.3	6.2	14.1
<b>100M</b>	<b>10</b>	<b>27</b>	<b>20</b>	<b>4.3</b>	<b>6.8</b>	<b>5.2</b>	<b>11.5</b>
150M	15	32	30	3.9	5.5	4.3	9.1
220M	22	50	40	3.1	4.5	3.7	7.6
330M	33	69	60	2.4	3.7	3.0	6.1
470M	47	109	74	1.9	3.1	2.4	5.2
680M	68	156	120	1.6	2.4	2.0	4.3
<b>101M</b>	<b>100</b>	<b>206</b>	<b>170</b>	<b>1.4</b>	<b>2.0</b>	<b>1.8</b>	<b>3.6</b>

 Measuring Freq.: 100kHz 0.1V; M :  $\pm 20\%$  N : +40% -20%