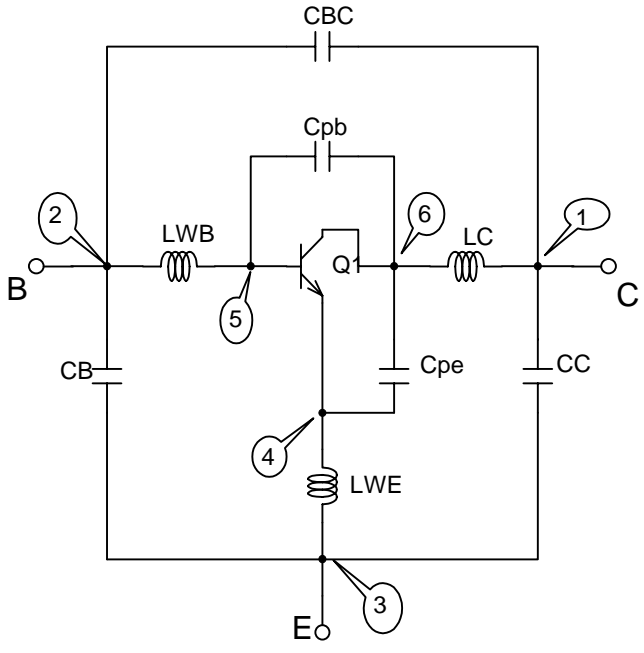


NET LIST

```
.SUBCKT 2SC4915 1 2 3
CB      2      3      20 fF
LWB     2      5      1.00 pH
LWE     4      3      738 pH
Cpe     4      6      208 fF
Cpb     5      6      158 fF
LC      6      1      1.00 pH
CC      1      3      60 fF
CBC     1      2      60 fF
Q1      6      5      4      NPN
+      AREA =      1
```

```
.MODEL NPN NPN
+      IS      =      1.30 fA
+      BF      =      131
+      NF      =      1.00
+      VAF     =      68 V
+      IKF     =      138 mA
+      ISE     =      265 fA
+      NE      =      3.34
+      BR      =      3.04
+      NR      =      998 m
+      VAR     =      174 V
+      IKR     =      416 mA
+      ISC     =      711 aA
+      NC      =      1.04
+      RB      =      15 Ohm
+      IRB     =      500 uA
+      RBM     =      12 Ohm
+      RE      =      1.00 mOhm
+      RC      =      10 Ohm
+      XTB     =      0.00
+      EG      =      1.11 eV
+      XTI     =      3.00
+      CJE     =      1.73 pF
+      VJE     =      739 mV
+      MJE     =      334 m
+      TF      =      162 ps
+      XTF     =      87
+      VTF     =      400 mV
+      ITF     =      110 mA
+      PTF     =      36 deg
+      CJC     =      834 fF
+      VJC     =      630 mV
+      MJC     =      440 m
+      XCJC    =      1.00
+      TR      =      1.00 us
+      FC      =      900 m
```

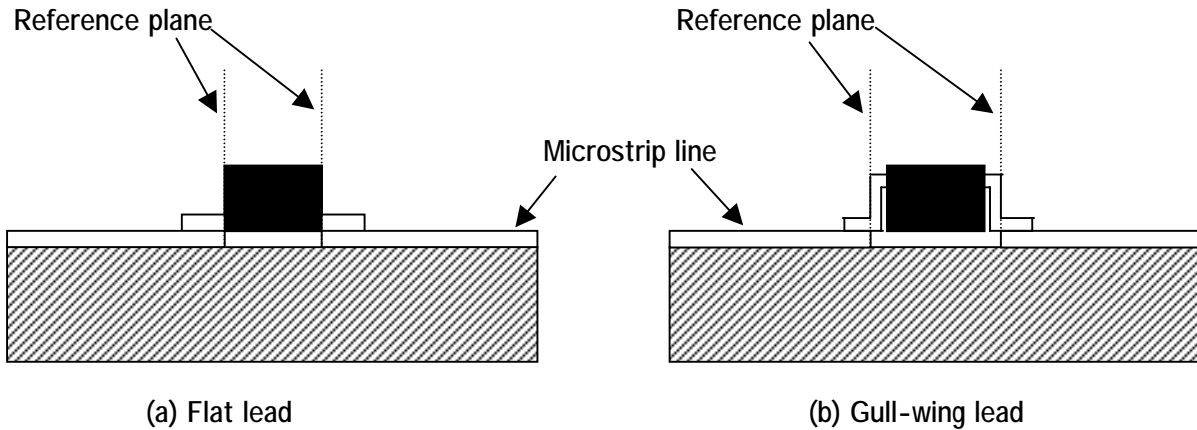
```
.ENDS
.ENDS
```



Equivalent circuit

Note 1: This data is valid for up to 3 GHz.

Note 2: These parameters do not take into account the part of the lead which lies outside the reference plane when the device is mounted on the circuit board.



Side view of mounted device

Note 3: The measurements shown in this document are given only as sample characteristics. Moreover, these sample parameters are not guaranteed for when the device is used in the mass production of equipment, since the high-frequency (AC) characteristics of these devices will be affected by the external components which the customer uses, by the design of the circuits and by various other conditions. It is the responsibility of the customer to check the characteristics of a design. Toshiba assumes no responsibility for the integrity of customer circuit designs or applications.