



-	<u>21</u>	<u>6</u>	<u>210320621</u>	
	<u>2023</u>	<u>5</u>	<u>18</u>	






1.

2.

ORCAD PSPICE

3.

RC

4.

Q

ORCAD PSPICE

SPB 16.6

### **Pspice**

Pspice

SPICE

Simulation Program with Intergrated Circuit Emphasis

Pspice

Pspice

BEF

LPF

HPF

BPF

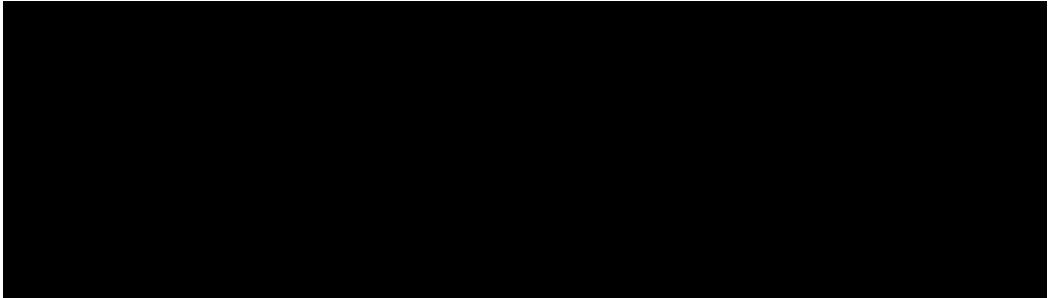
1

1 a



2

3



Q

$A_0$

$\frac{1}{A_0}$

$Q=0.707$

40dB/10

20dB/10

$Q>0.707$

$\phi_0$

2

4 a



3

5 a

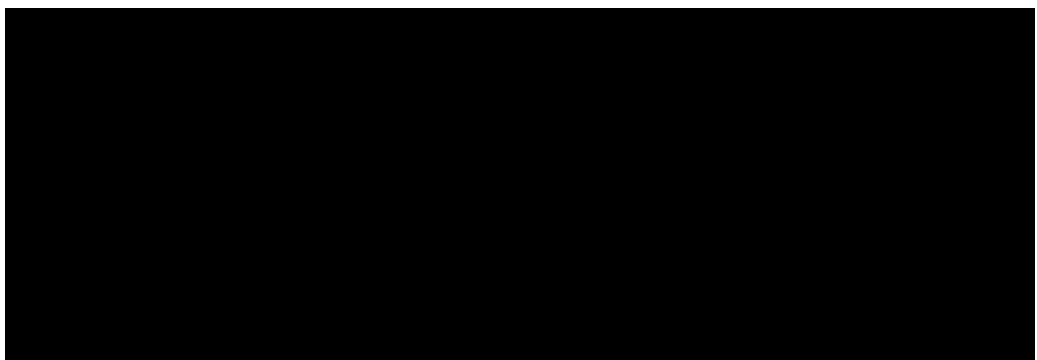
5



4

6 a

T



1-1

CenterFrequency

1 :

=



=



2

:  
 $V_{\text{out}}$



3

$$Q = \frac{V_{out}}{R_3 + R_4} \quad Q = \frac{V_{out}}{R_3 + R_4}$$

$$R_3 = 10k \quad R_4 = 20k$$



$$R_3 = R_4 = 10k$$





$R_3$  20k  $R_4$  10k  $Q$

=



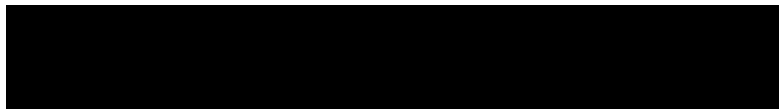
4

$V_{\text{out}}$



5

$V_{\text{out}}$



6

$V_{\text{out}}$



=

1.



1

2

3

4

2.

