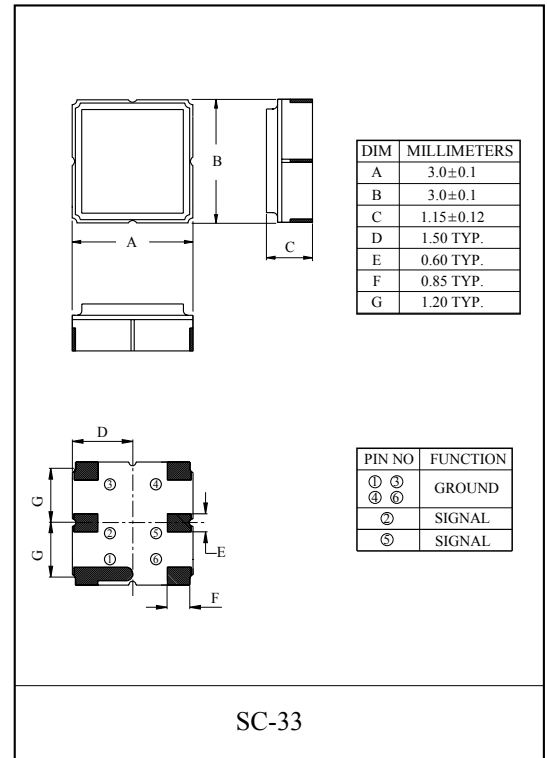


Band pass filters for TX of AMPS/TDMA/CDMA.

- High stability and reliability with good performance and no adjustment.
- Wide and sharp pass band characteristics.
- Low insertion loss and deep stop band attenuation for interference.

#### MAXIMUM RATINGS

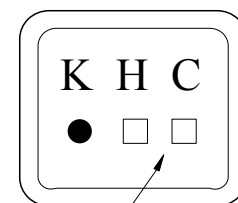
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	$IS_{max}$	+10	dBm
DC Permissive Voltage	$V_{DC}$	5	V
Operating Temperature Range	$T_{opr}$	-30 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-40 ~ +85	°C



#### ELECTRICAL CHARACTERISTICS (Ta=-30 to 85 °C)

ITEMS	SYMBOL	TEST CONDITION	MIN.	TYP.(25 °C)	MAX.	UNIT
Nominal Center Frequency	$f_0$	-	-	836.5	-	MHz
Bandwidth	$BW_{3dB}$	-	$f_0 \pm 12.5$	-	-	MHz
Insertion Loss	$IL_{PASS}$	$f_0 \pm 12.5MHz$	-	2.8	3.5	dB
Ripple Level	$A_{RIP}$	$f_0 \pm 12.5MHz$	-	0.8	1.6	dB
Rejection Level	$IL_{STOP}$	DC ~ 800MHz	43	48	-	dB
		869 ~ 1049MHz	28	33	-	
		1049 ~ 1200MHz	50	65	-	
		1200 ~ 2000MHz	30	35	-	
Voltage Standing Wave Ratio	VSWR	$f_0 \pm 12.5MHz$	-	1.5	2.0	-
Input/Output Impedance	$Z_1(Z_0)$	-	-	50Ω	-	-

#### MARKING

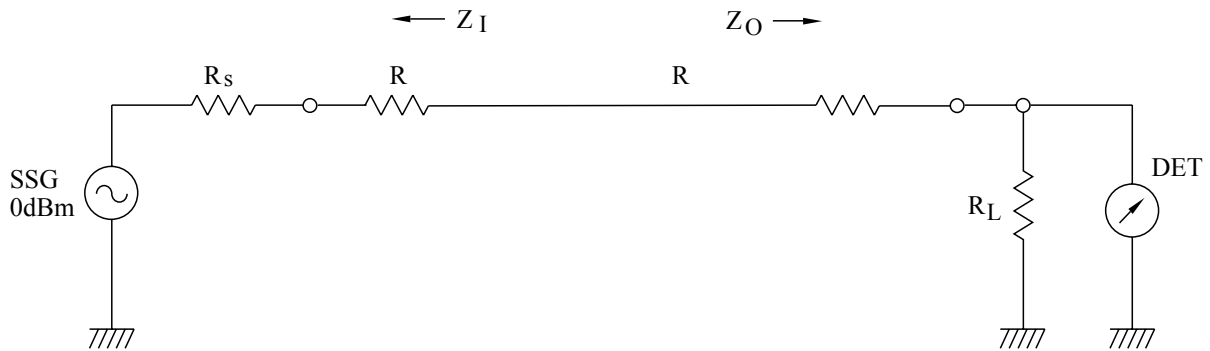


Lot No. \_\_\_\_\_

# KF836U

## TEST CIRCUIT

### REFERENCE LEVEL TEST CIRCUIT

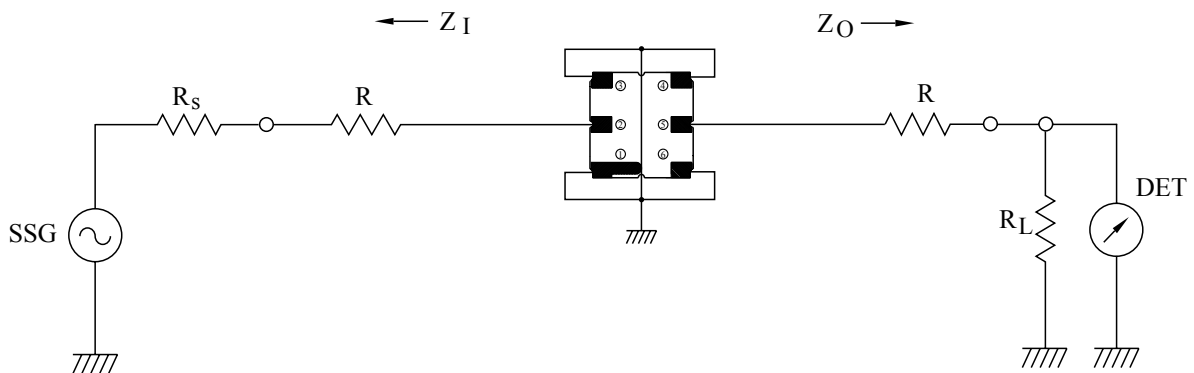


$R_s, R_L : 50\Omega$  (Internal Impedance of Source and Load)

$R : 0\Omega$

$$Z_I(Z_O) = R_s(R_L) + R$$

## MEASUREMENT CIRCUIT



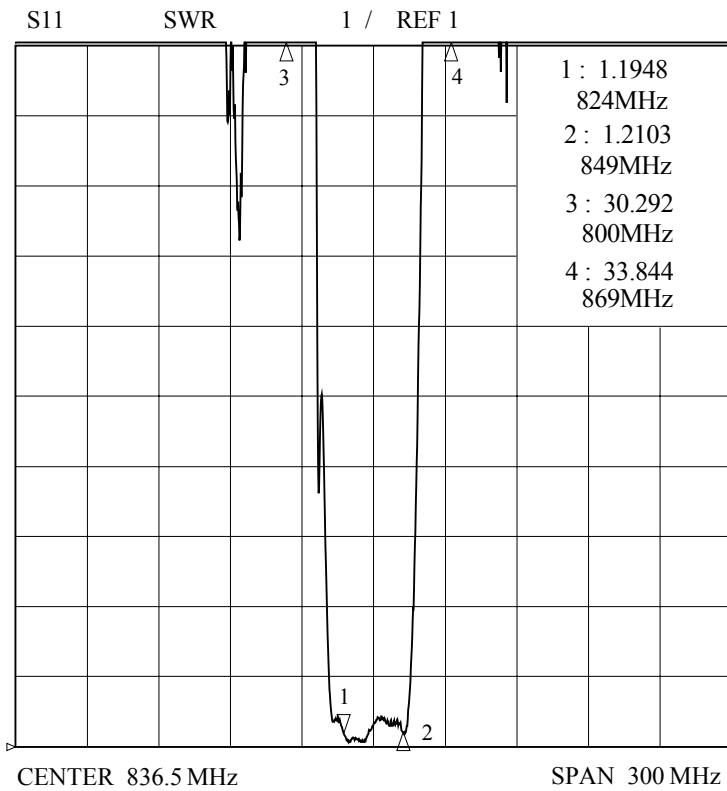
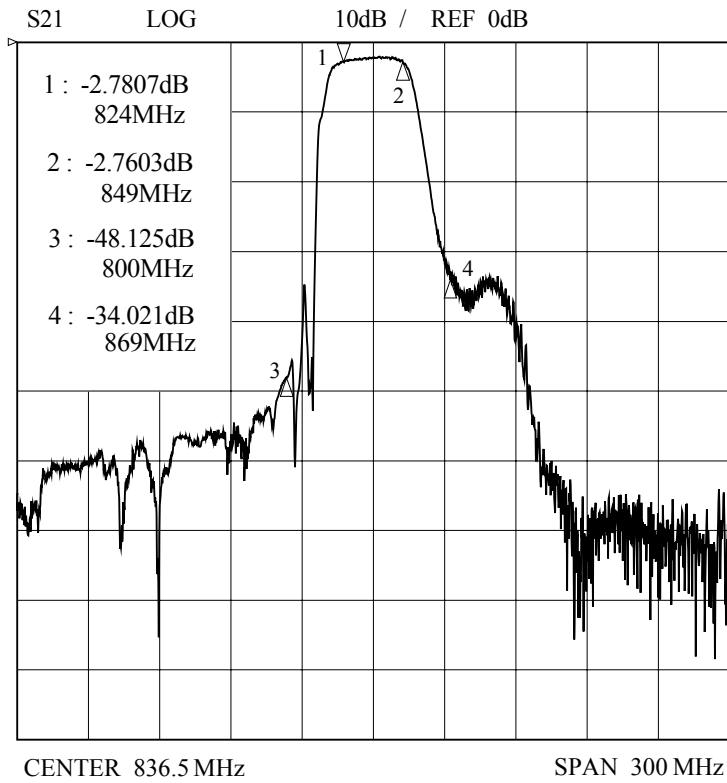
② : INPUT    ① , ③ , ④ , ⑥ : GROUND    ⑤ : OUTPUT

$R_s, R_L : 50\Omega$  (Internal Impedance of Source and Load)

$R : 0\Omega$

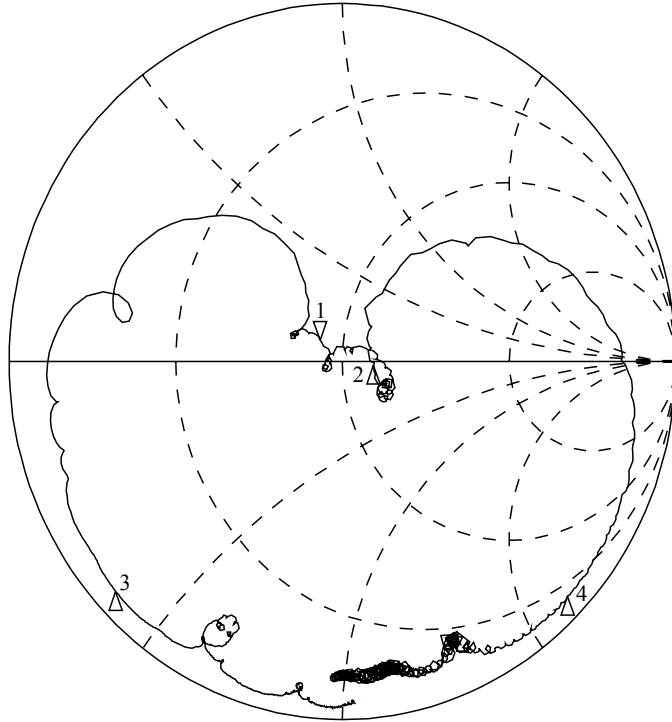
$$Z_I(Z_O) = R_s(R_L) + R$$

# KF836U



# KF836U

S11 1UFS

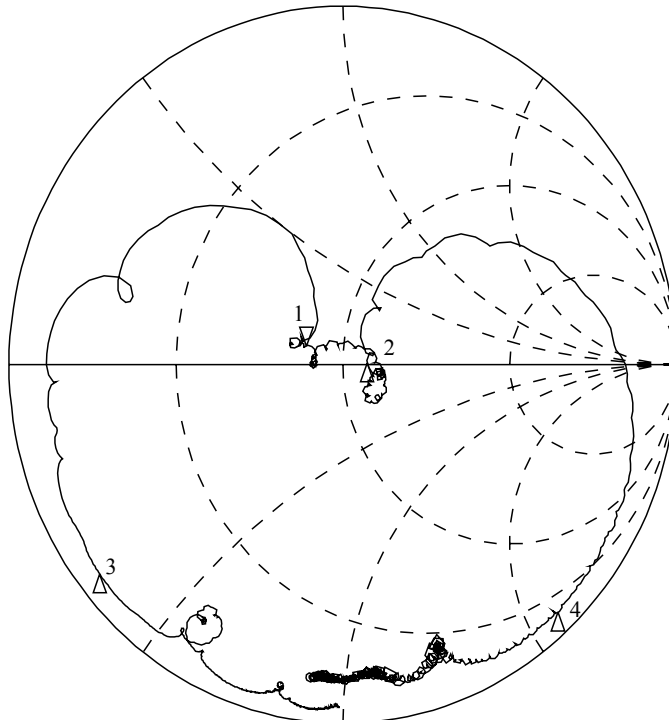


- 1 : 43.492 $\Omega$   
5.1719 $\Omega$   
998.94pH  
824MHz
- 2 : 60.432 $\Omega$   
-1.2383 $\Omega$   
849MHz
- 3 : 1.9111 $\Omega$   
-19.857 $\Omega$   
800MHz
- 4 : 10.387 $\Omega$   
-122.47 $\Omega$   
869MHz

CENTER 836.5 MHz

SPAN 300 MHz

S22 1UFS



- 1 : 39.992 $\Omega$   
4.3008 $\Omega$   
830.69pH  
824MHz
- 2 : 57.895 $\Omega$   
0.5918 $\Omega$   
849MHz
- 3 : 1.9268 $\Omega$   
-17.527 $\Omega$   
800MHz
- 4 : 8.9648 $\Omega$   
-114.52 $\Omega$   
869MHz

CENTER 836.5 MHz

SPAN 300 MHz

# KF836U

