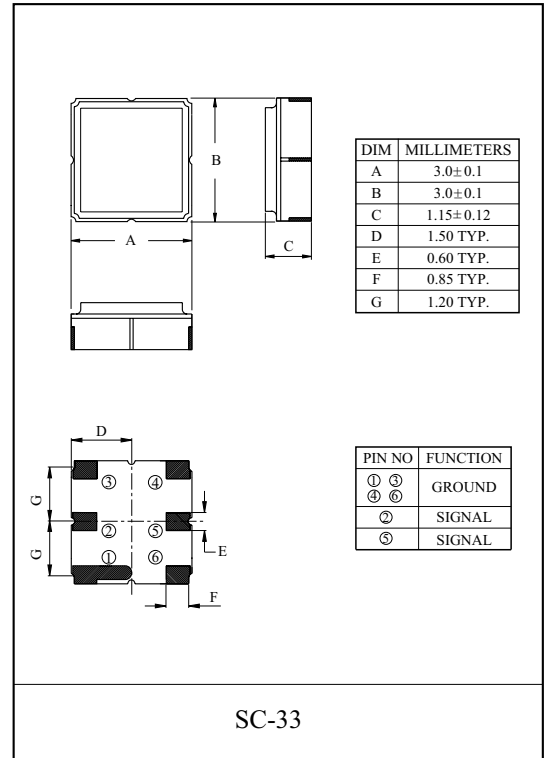


Band pass filters for TX of AMPS/TDMA/CDMA

- 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

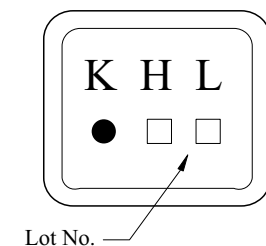
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	$IS_{max}$	+15	dBm
DC Permissive Voltage	$V_{DC}$	5	V
Operating Temperature Range	$T_{opr}$	-30 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-40 ~ +85	°C



#### 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	$IL_{PASS}$	$f_0 \pm 12.5MHz$	-	3.0	3.5	dB
Ripple Level	$A_{RIP}$	$f_0 \pm 12.5MHz$	-	1.0	2.0	dB
Rejection Level	$IL_{STOP}$	DC ~ 800MHz	28	30	-	dB
		869 ~ 894MHz	35	38	-	
		894 ~ 1200MHz	30	33	-	
		1200 ~ 2000MHz	25	30	-	
Voltage Standing Wave Ratio	VSWR	$f_0 \pm 12.5MHz$	-	2.0	2.2	-
Input/Output Impedance	$Z_1(Z_0)$	-	-	50 $\Omega$	-	-

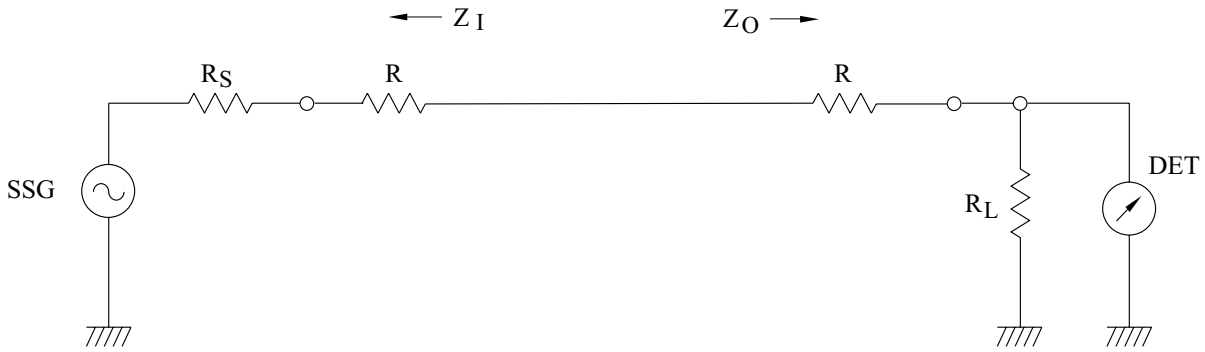
#### MARKING



# KF836FU

## TEST CIRCUIT

### REFERENCE LEVEL TEST CIRCUIT

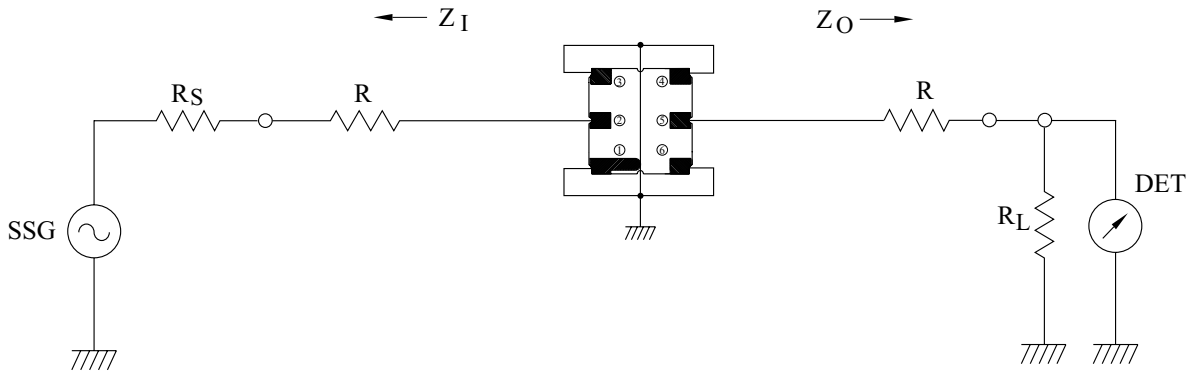


$R_S, R_L : 50 \Omega$  (Internal Impedance of Source and Load)

$R : 0 \Omega$

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

## MEASUREMENT CIRCUIT



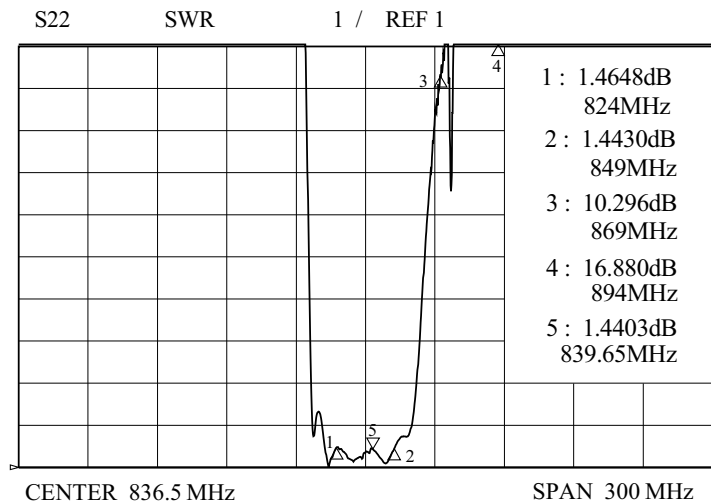
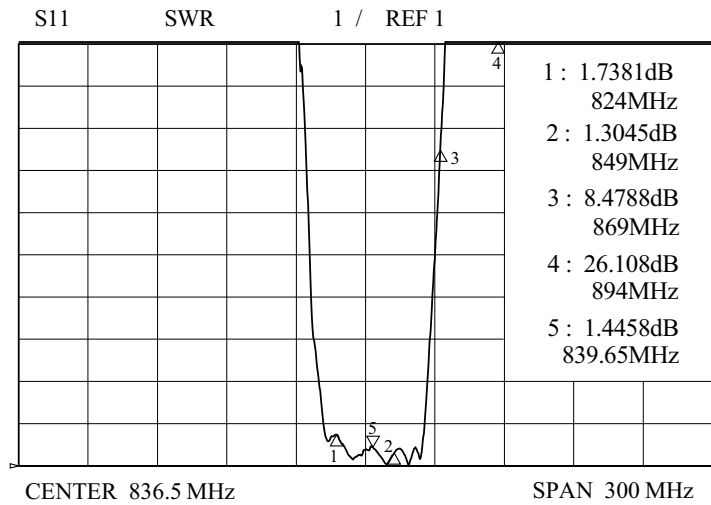
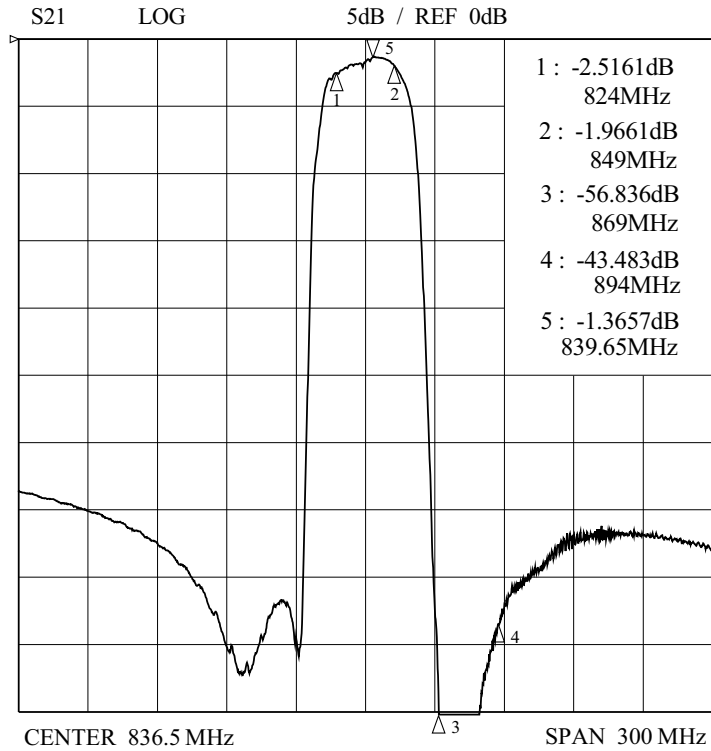
② : INPUT    ①, ③, ④, ⑥ : GROUND    ⑤ : OUTPUT

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

$R : 0 \Omega$

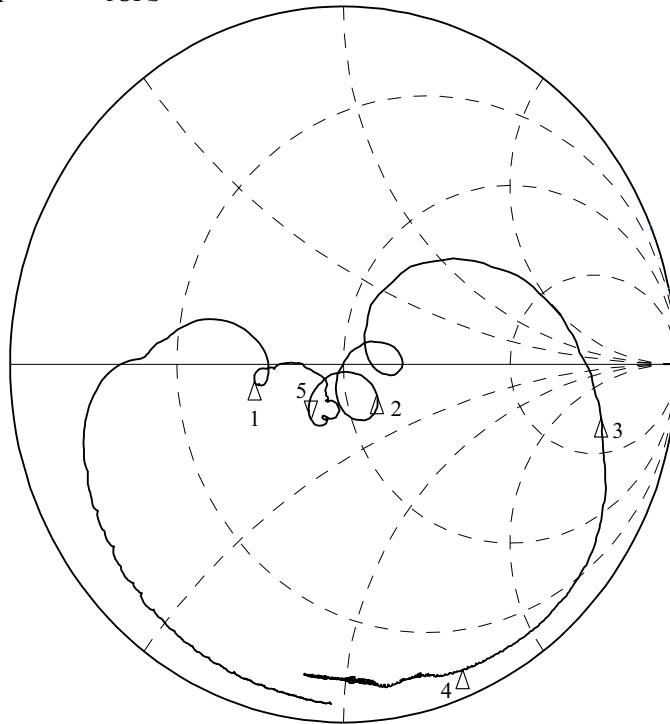
$Z_I(Z_O) = R_S(R_L) + R$

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# KF836FU

S11 1UFS

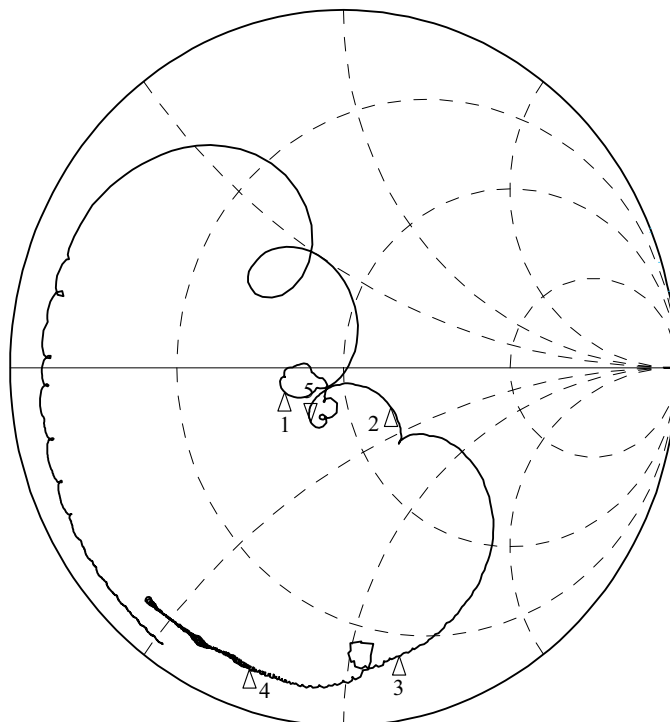


- 1 : 28.915Ω  
-2.9277Ω  
824MHz
- 2 : 60.205Ω  
-10.473Ω  
849MHz
- 3 : 256.84Ω  
-204.70Ω  
869MHz
- 4 : 6.2305Ω  
-74.883Ω  
894MHz
- 5 : 39.465Ω  
-12.660Ω  
14.972pF  
839.65MHz

CENTER 836.5 MHz

SPAN 300 MHz

S22 1UFS



- 1 : 34.762Ω  
-4.9023Ω  
824MHz
- 2 : 64.781Ω  
-14.902Ω  
849MHz
- 3 : 12.045Ω  
-60.117Ω  
869MHz
- 4 : 4.4883Ω  
-36.801Ω  
894MHz
- 5 : 39.408Ω  
-12.369Ω  
15.324pH  
839.65MHz

CENTER 836.5 MHz

SPAN 300 MHz

# KF836FU

