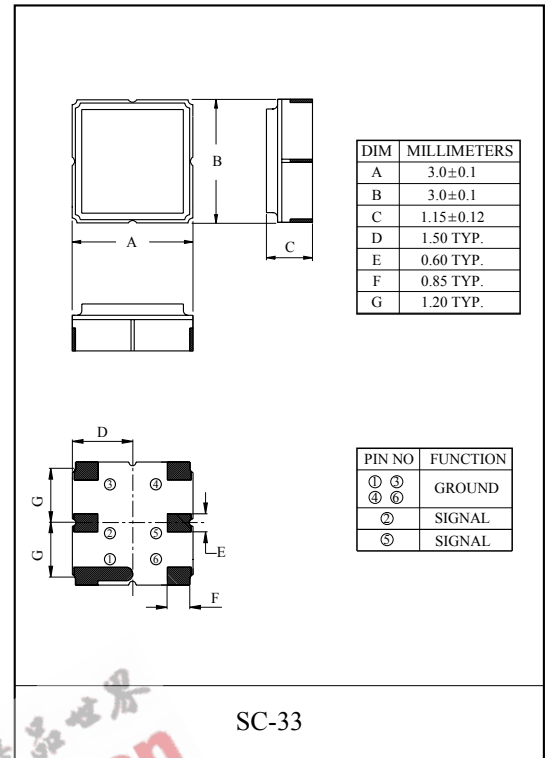


Band pass filters for TX of AMPS/TDMA/CDMA.

- 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

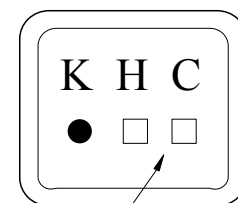
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	IS_{max}	+10	dBm
DC Permissive Voltage	V_{DC}	5	V
Operating Temperature Range	T_{opr}	-30 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C



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

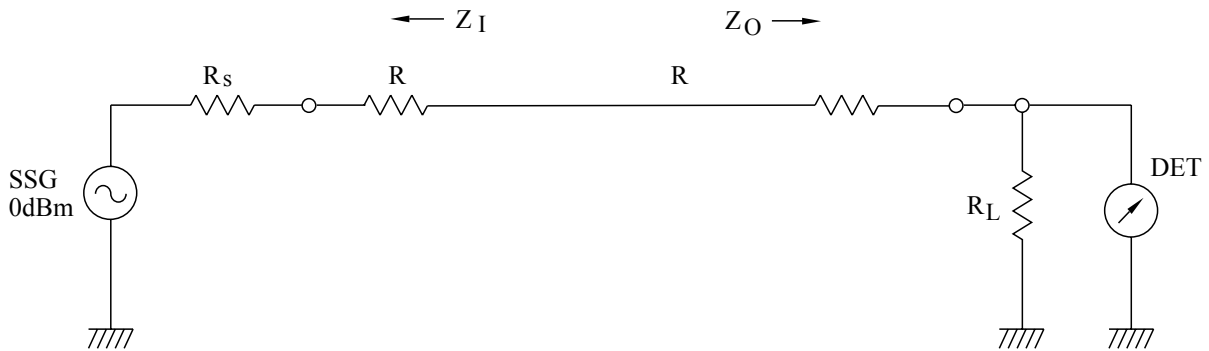


Lot No. _____

KF836U

TEST CIRCUIT

REFERENCE LEVEL TEST CIRCUIT

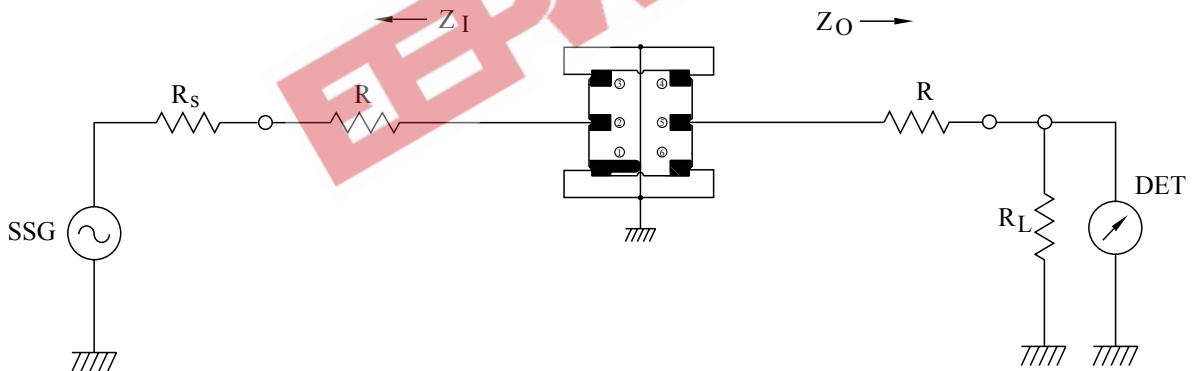


$R_s, R_L : 50\Omega$ (Internal Impedance of Source and Load)

$R : 0\Omega$

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

MEASUREMENT CIRCUIT



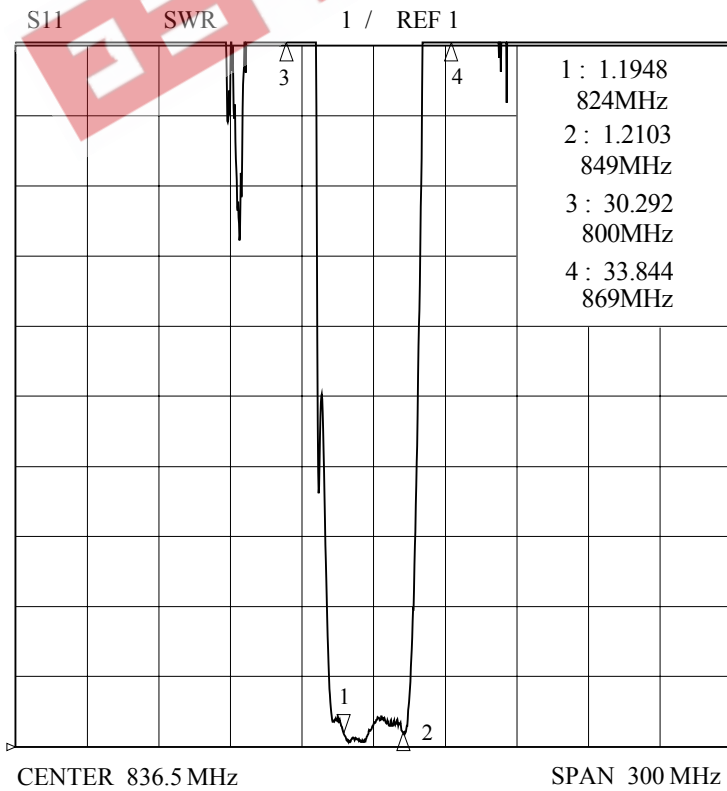
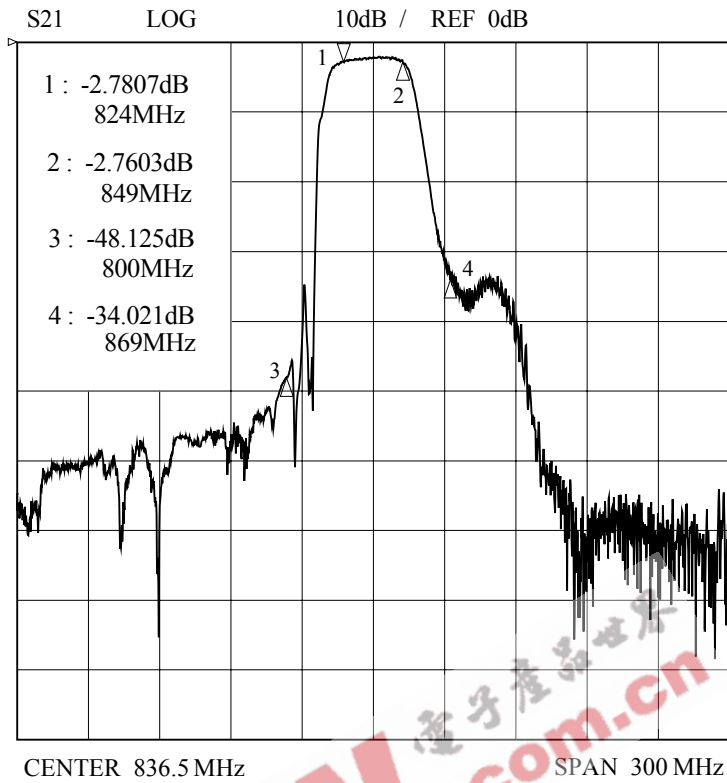
② : INPUT ①, ③, ④, ⑥ : GROUND ⑤ : OUTPUT

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

$R : 0\Omega$

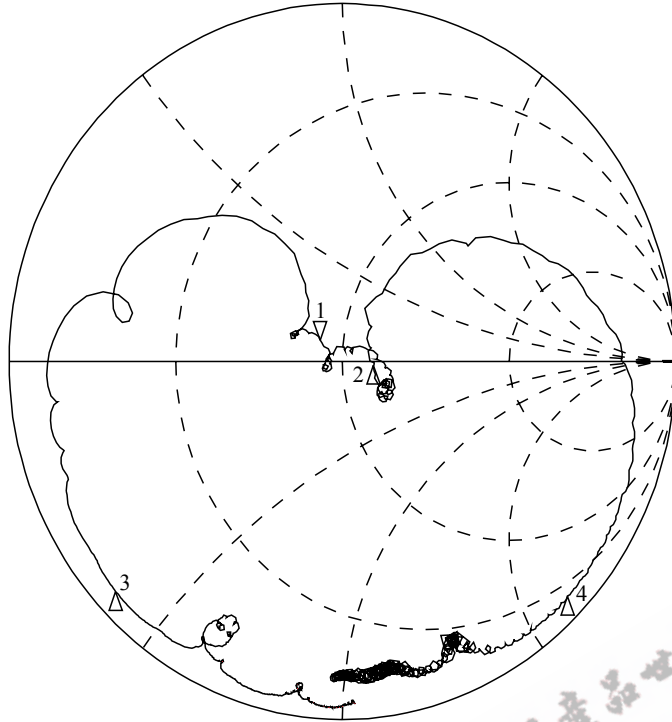
$$Z_I(Z_O) = R_s(R_L) + R$$

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S11 1UFS

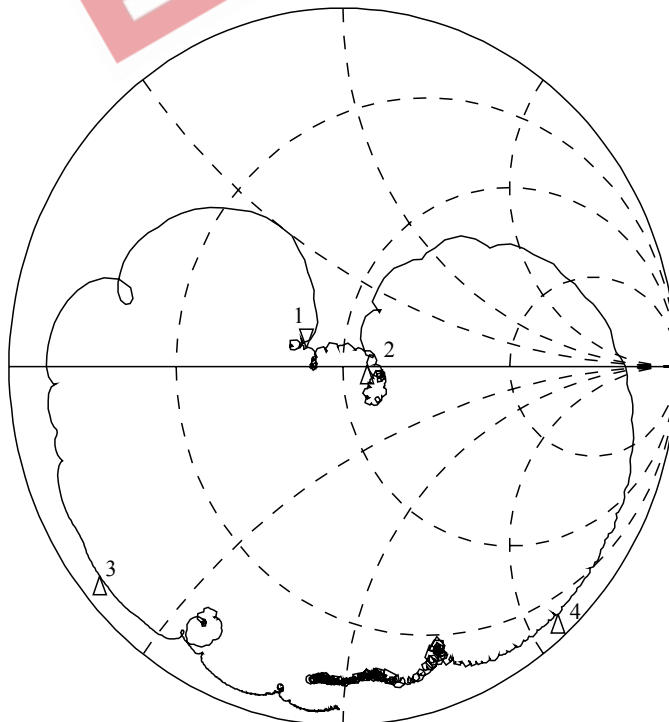


- 1 : 43.492 Ω
5.1719 Ω
998.94pH
824MHz
- 2 : 60.432 Ω
-1.2383 Ω
849MHz
- 3 : 1.9111 Ω
-19.857 Ω
800MHz
- 4 : 10.387 Ω
-122.47 Ω
869MHz

CENTER 836.5 MHz

SPAN 300 MHz

S22 1UFS

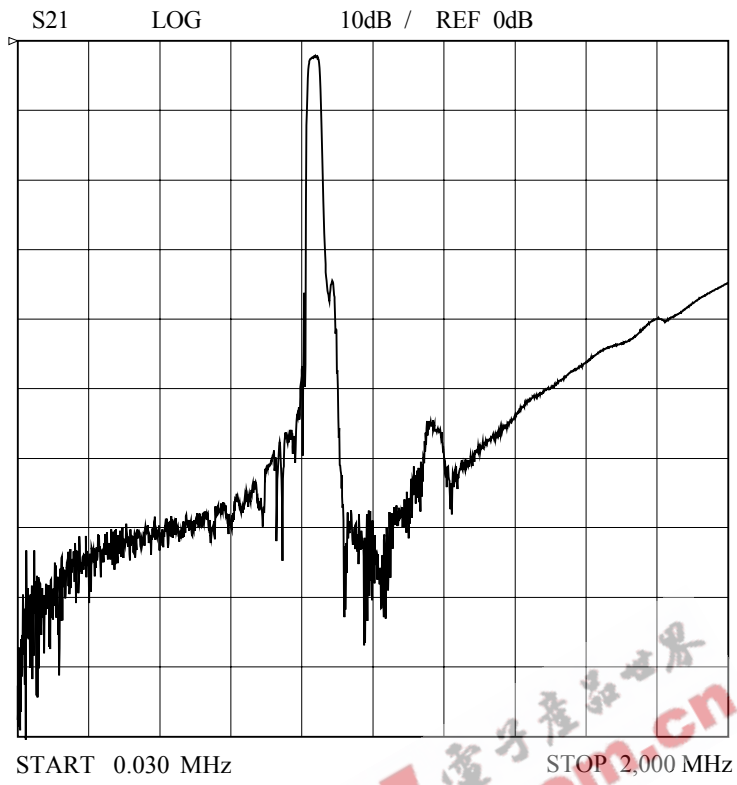


- 1 : 39.992 Ω
4.3008 Ω
830.69pH
824MHz
- 2 : 57.895 Ω
0.5918 Ω
849MHz
- 3 : 1.9268 Ω
-17.527 Ω
800MHz
- 4 : 8.9648 Ω
-114.52 Ω
869MHz

CENTER 836.5 MHz

SPAN 300 MHz

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