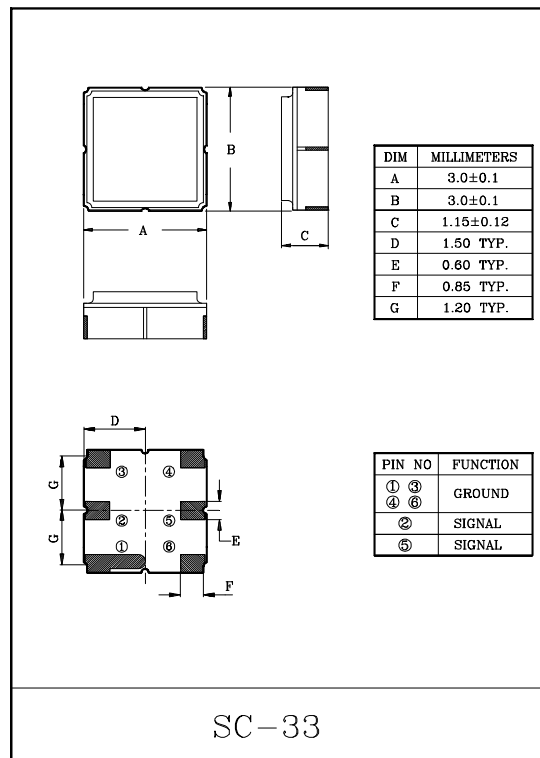


Band pass filter for RX of GSM.

- 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

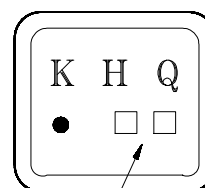
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	IS_{max}	+23	dBm
DC Permissive Voltage	V_{DC}	-5 ~ +5	V
Operating Temperature Range	T_{opr}	-30 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +100	°C



ELECTRICAL CHARACTERISTICS (Ta=-30~+85°C)

ITEMS	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Nominal Center Frequency	f_0	-	-	947.5	-	MHz
Bandwidth	BW_{3dB}	-	$f_0 \pm 12.5$	-	-	MHz
Insertion Loss	IL_{PASS}	$f_0 \pm 12.5$ MHz	-	2.2	3.5	dB
Ripple Level	A_{RIP}	$f_0 \pm 12.5$ MHz	-	1.0	2.0	dB
Rejection Level	IL_{STOP}	DC ~ 890 MHz	20	27	-	dB
		890 ~ 915 MHz	20	27	-	
		980 ~ 1025 MHz	20	30	-	
		1025 ~ 1105 MHz	23	28	-	
		1105 ~ 1600 MHz	25	32	-	
1600 ~ 2000 MHz	25	30	-	-		
Voltage Standing Wave Ratio	VSWR	$f_0 \pm 12.5$ MHz	-	1.8	2.7	-
Input/Output Impedance	$Z_I(Z_O)$	-	-	50Ω//0pF	-	-

Marking

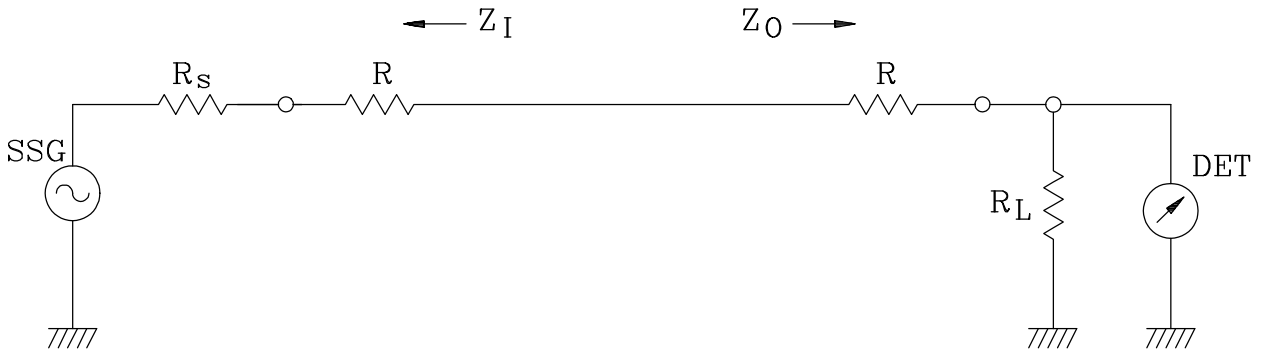


Lot No.

KF947FU

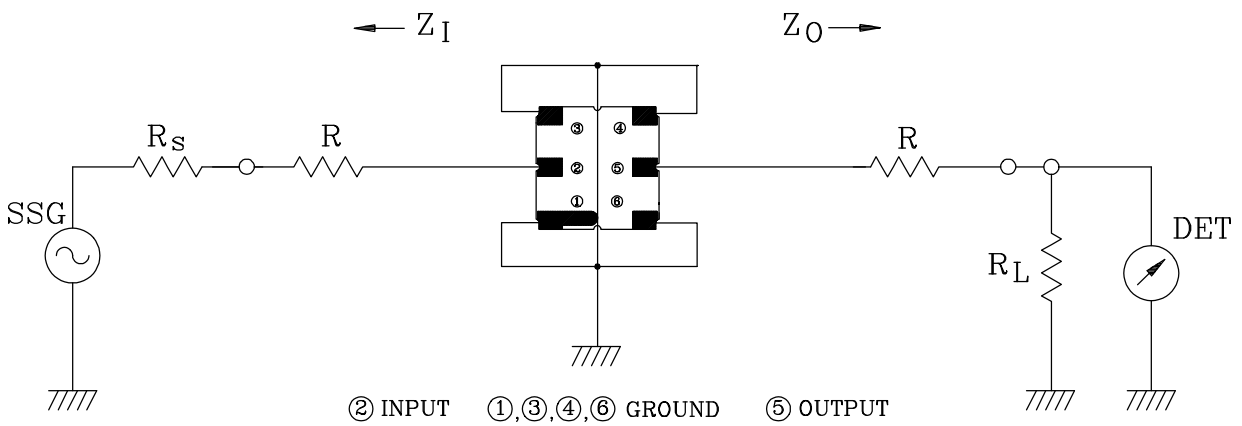
TEST CIRCUIT

REFERENCE LEVEL TEST CIRCUIT



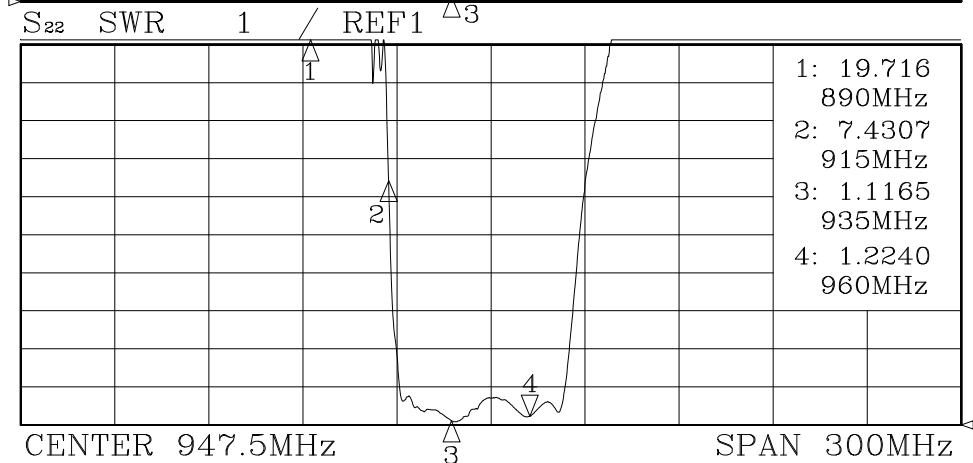
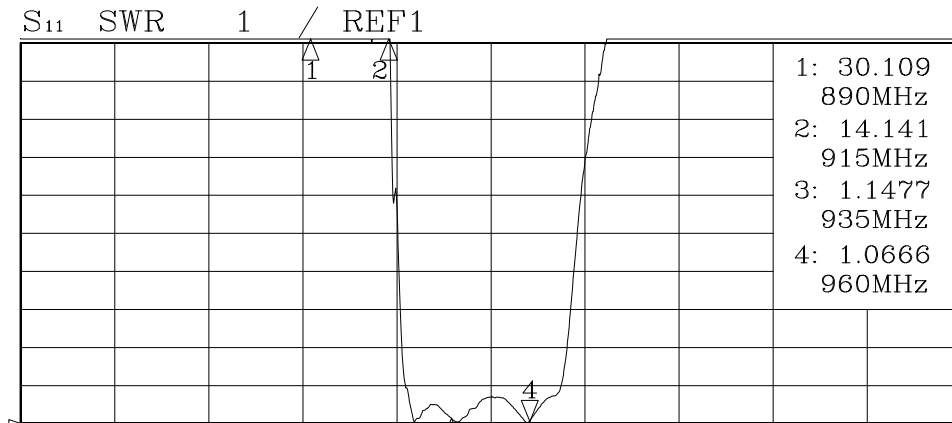
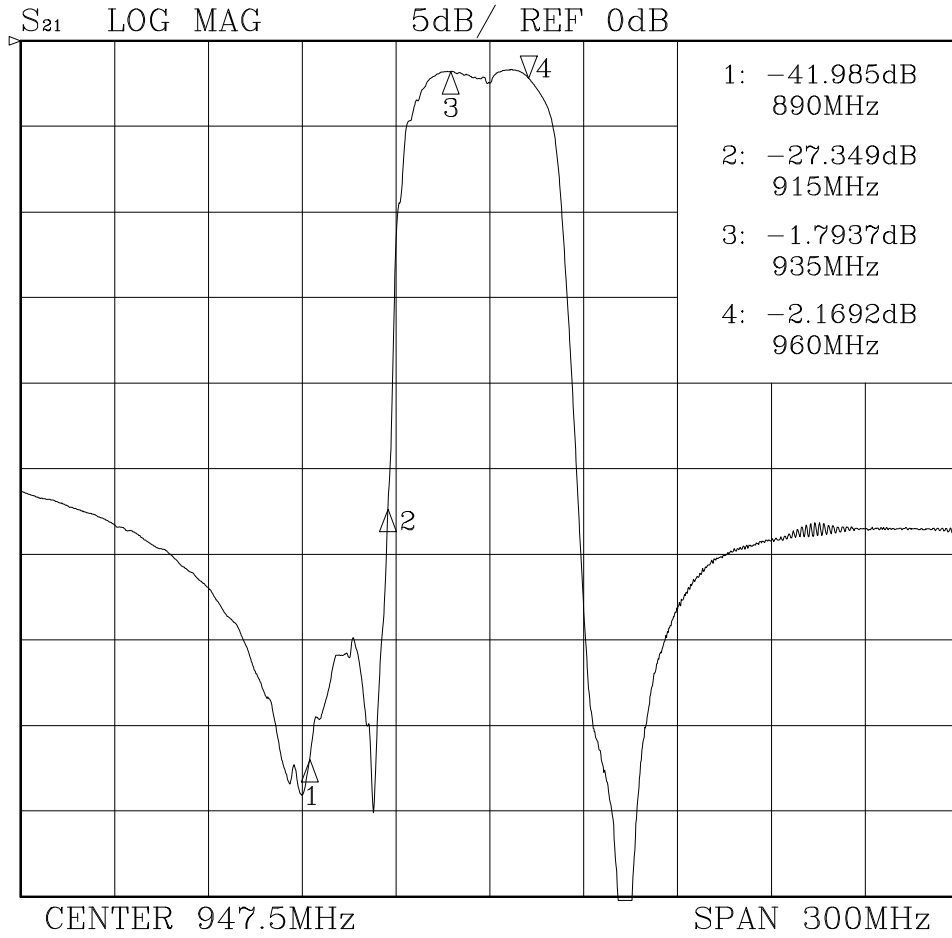
$R_s, R_L : 50\Omega$ (Internal Impedance of Source and Load)
 $R : 0\Omega$
 $Z_I(Z_O)=R_s(R_L)+R$

MEASUREMENT CIRCUIT



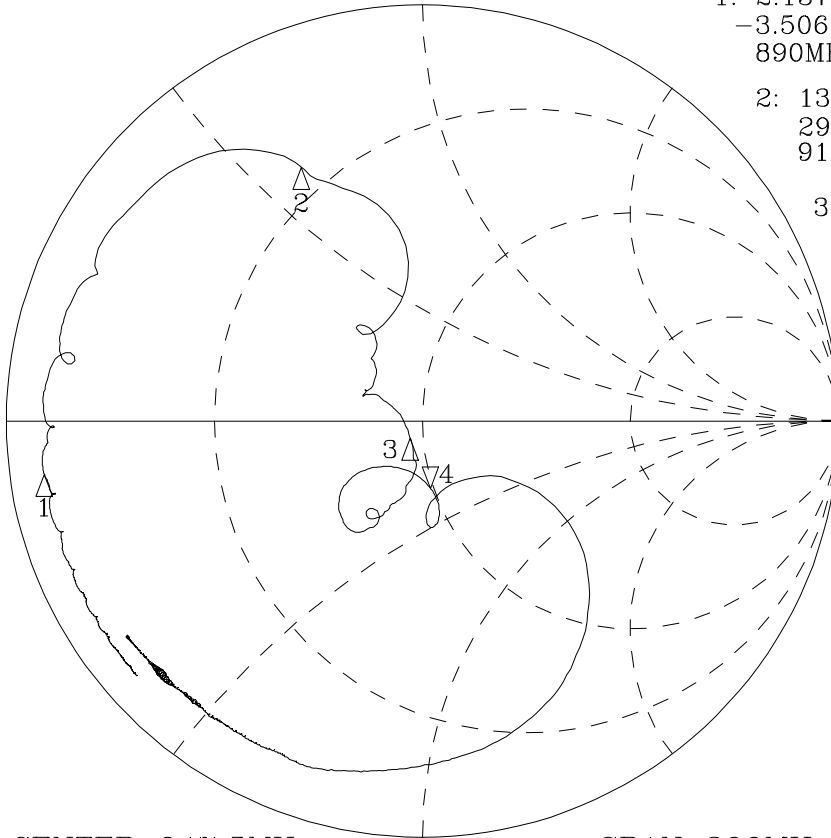
$R_s, R_L : 50\Omega$ (Internal Impedance of Source and Load)
 $R : 0\Omega$
 $Z_I(Z_O)=R_s(R_L)+R$

KF947FU



KF947FU

S₂₂ 1UFS

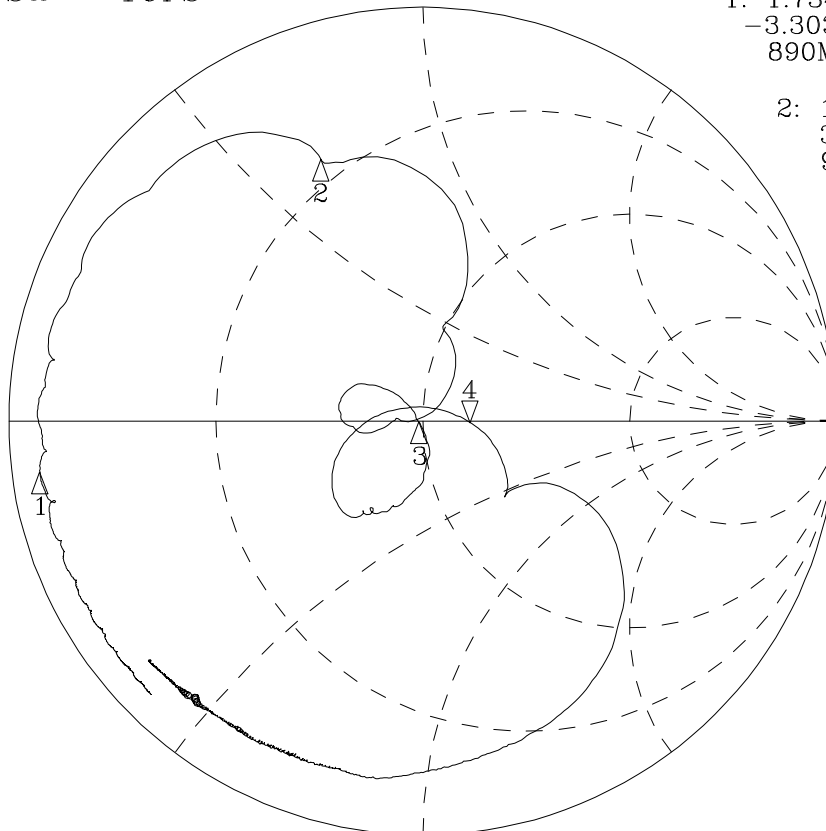


- 1: 2.1378Ω
-3.5065Ω
890MHz
- 2: 13.330Ω
29.923Ω
915MHz
- 3: 47.074Ω
-3.9727Ω
935MHz
- 4: 49.279Ω
-16.396Ω
960MHz

CENTER 947.5MHz

SPAN 300MHz

S₁₁ 1UFS



- 1: 1.7341Ω
-3.3033Ω
890MHz
- 2: 13.736Ω
32.395Ω
915MHz
- 3: 49.051Ω
-218.75Ω
935MHz
- 4: 63.000Ω
-460.94Ω
960MHz

CENTER 947.5MHz

SPAN 300MHz