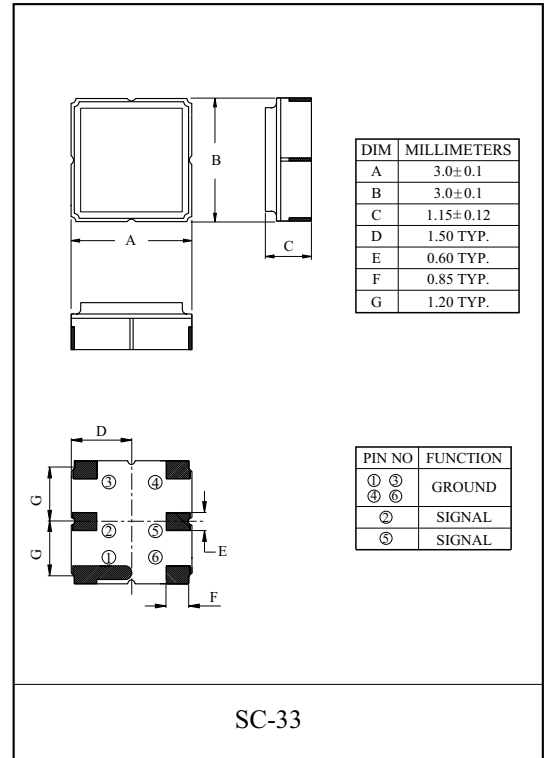


Band pass filters for TX of AMPS/TDMA/CDMA

- 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

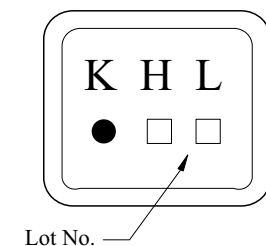
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	IS_{max}	+15	dBm
DC Permissive Voltage	V_{DC}	5	V
Operating Temperature Range	T_{opr}	-30 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C



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 Ω	-	-

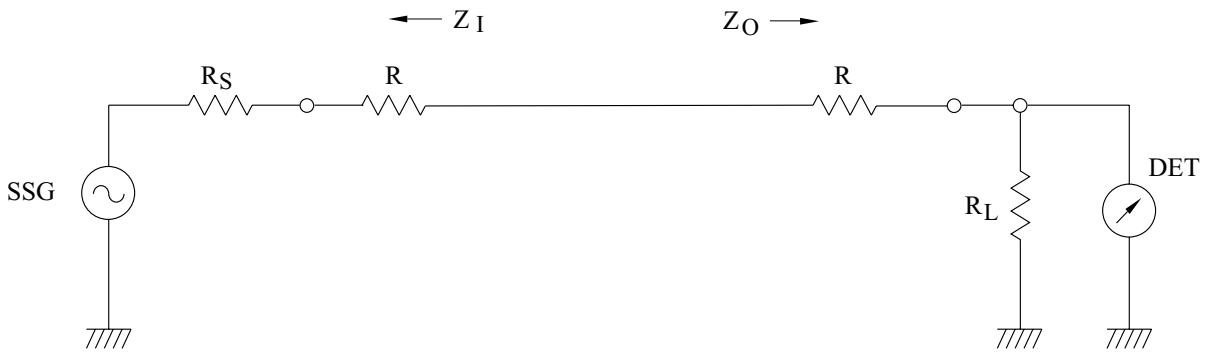
MARKING



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TEST CIRCUIT

REFERENCE LEVEL TEST CIRCUIT

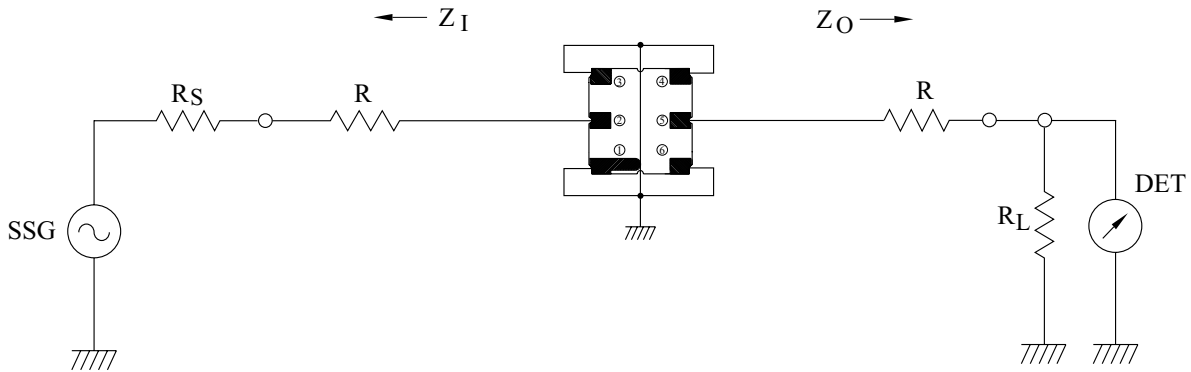


$R_S, R_L : 50 \Omega$ (Internal Impedance of Source and Load)

$R : 0 \Omega$

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

MEASUREMENT CIRCUIT



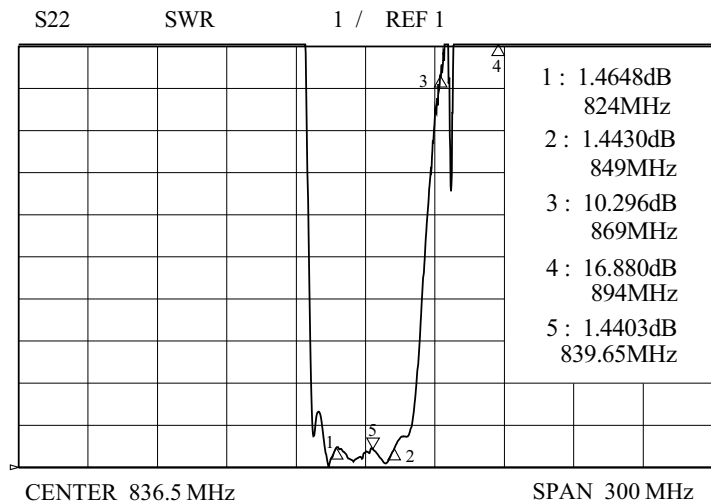
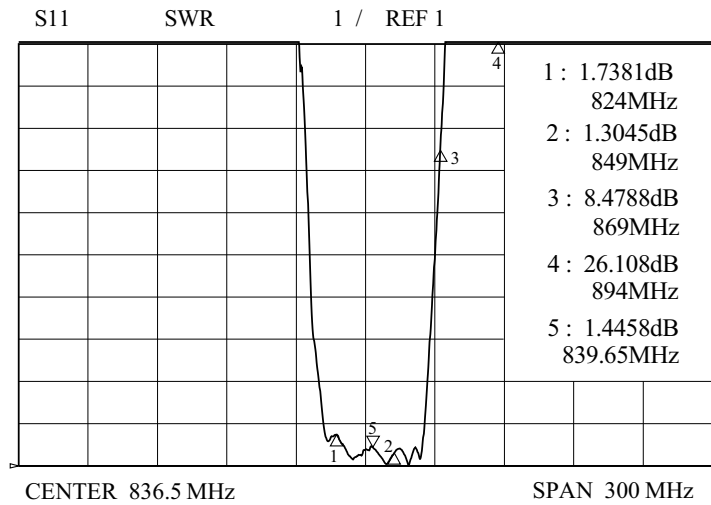
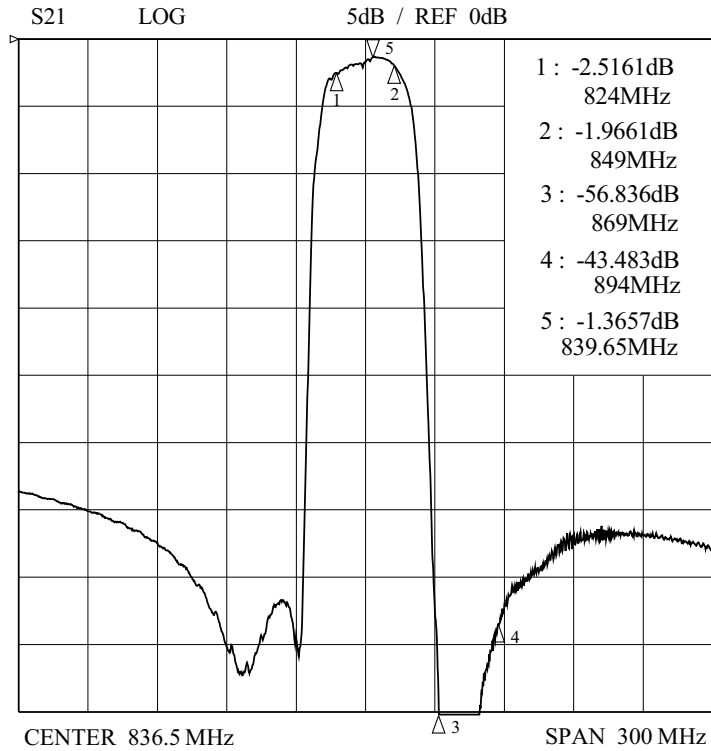
② : INPUT ① , ③ , ④ , ⑥ : GROUND ⑤ : OUTPUT

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

$R : 0 \Omega$

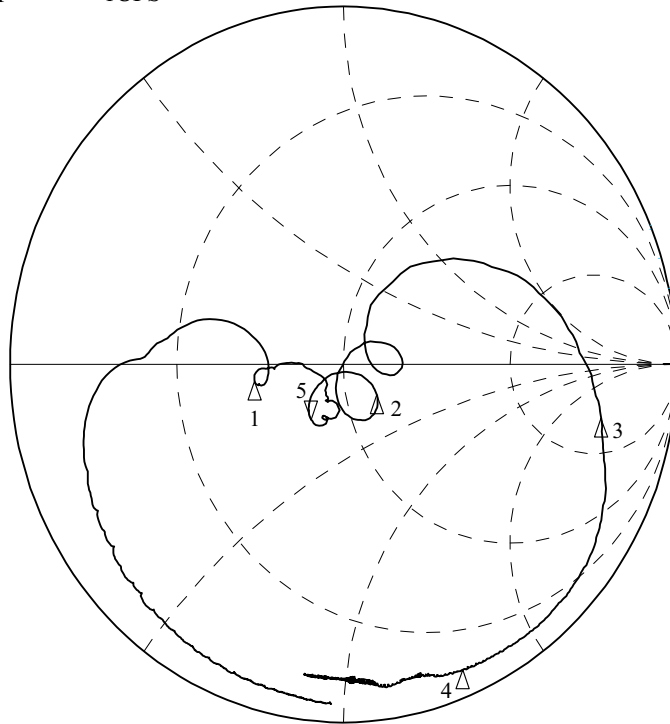
$Z_I(Z_O) = R_S(R_L) + R$

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S11 1UFS

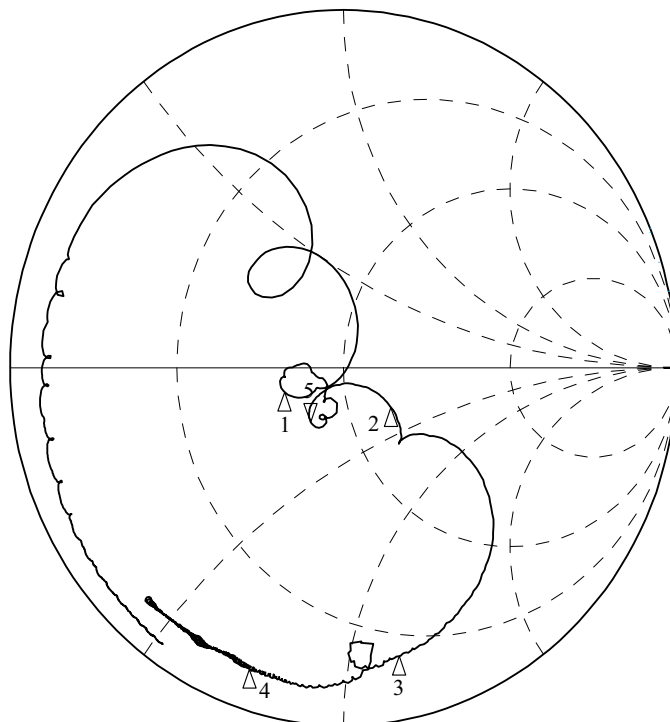


- 1 : 28.915Ω
-2.9277Ω
824MHz
- 2 : 60.205Ω
-10.473Ω
849MHz
- 3 : 256.84Ω
-204.70Ω
869MHz
- 4 : 6.2305Ω
-74.883Ω
894MHz
- 5 : 39.465Ω
-12.660Ω
14.972pF
839.65MHz

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

