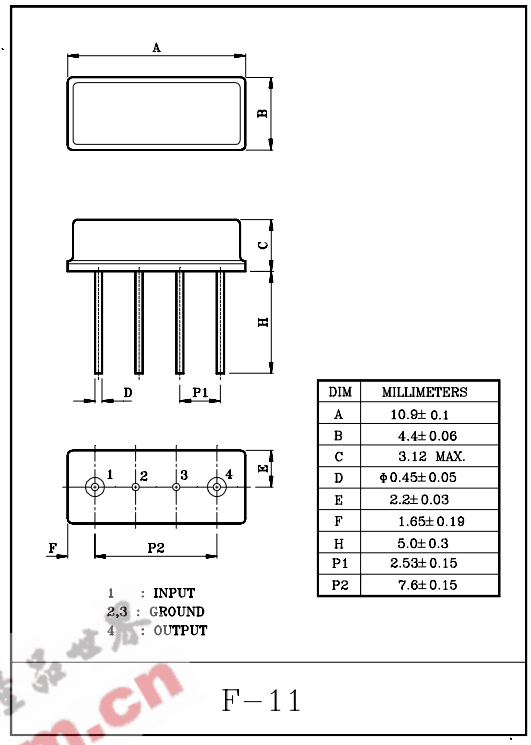
Band pass filters for the receiving RF circuits of pager

- 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.
- Terminating Impedance : 150Ω//0pF.
- SMD Package Type : (SC-45)KF284S, (SC-44)KF284V.
- 50Ω//0pF Terminating Impedance Type : KF284A.



DIM	MILLIMETERS
A	10.9± 0.1
B	4.4± 0.06
C	3.12 MAX.
D	Φ0.45± 0.05
E	2.2± 0.03
F	1.65± 0.19
H	5.0± 0.3
P1	2.53± 0.15
P2	7.6± 0.15

F-11

MAXIMUM RATINGS (Ta=25℃)

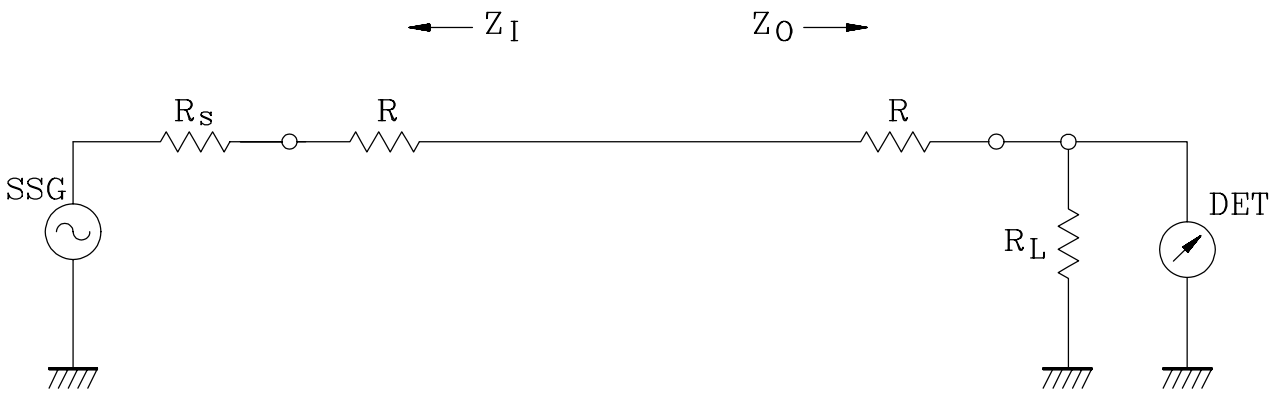
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	IS_{max}	0	dBm
DC Permissive Voltage	V_{DC}	+10	V
Operating Temperature Range	T_{opr}	-10~+50	℃
Storage Temperature Range	T_{stg}	-30~+85	℃

ELECTRICAL CHARACTERISTICS (Temperature 20±2℃, Humidity 65±5%)

ITEMS	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Nominal Center Frequency	fo	-	-	284	-	MHz
Bandwidth	BW_{3dB}	-	f_O±3.1	-	-	MHz
Insertion Loss	IL_{PASS}	f_O±3.1MHz	-	-	4.0	dB
Ripple Level	A_{RIP}	f_O±3.1MHz	-	-	2.0	dB
Rejection Level	IL_{STOP}	f_O-100~f_O-39.5MHz	50	-	-	dB
		f_O+39.5~f_O+100MHz	50	-	-	dB
Input/Output Impedance	$Z_I(Z_O)$	-	-	150Ω//0pF	-	-

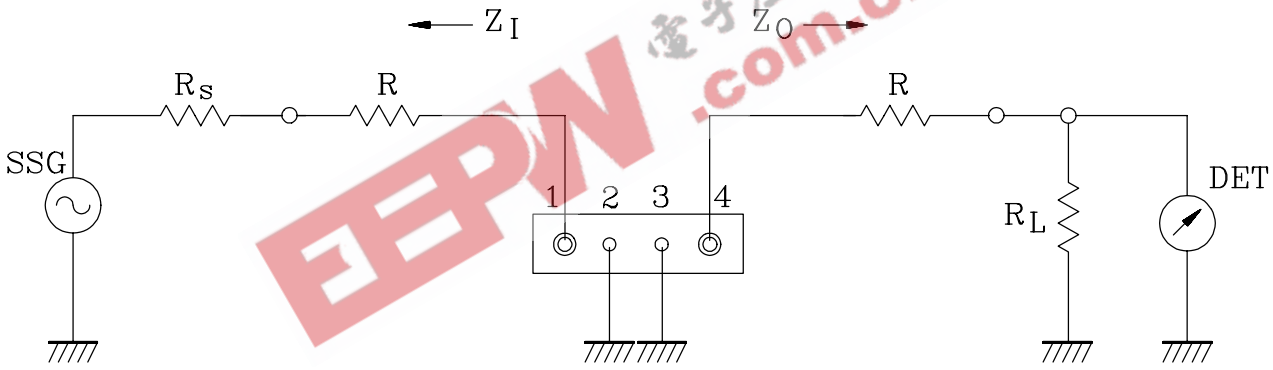
TEST CIRCUIT

REFERENCE LEVEL TEST CIRCUIT



R_S, R_L : 50Ω (Internal Impedance of Source and Load)
R : 100Ω
$Z_I(Z_O)=R_S(R_L)+R$

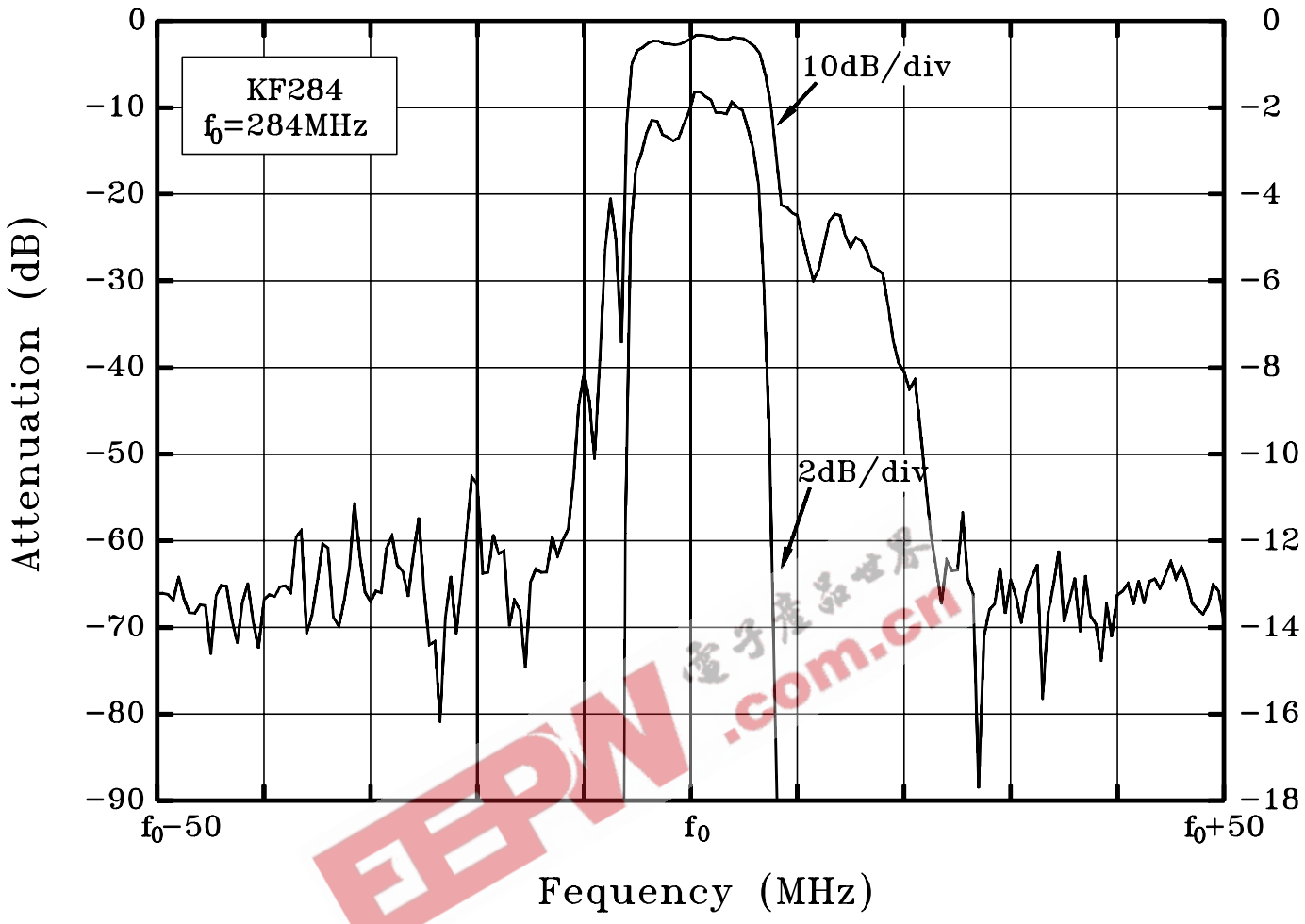
MEASUREMENT CIRCUIT



1:Input 2,3:Ground 4:Output

R_S, R_L : 50Ω (Internal Impedance of Source and Load)
R : 100Ω
$Z_I(Z_O)=R_S(R_L)+R$

ATT – f


KF284
f0=284MHz
10dB/div
2dB/div
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
Attenuation (dB)
f0−50
f0
f0+50
Fequency (MHz)