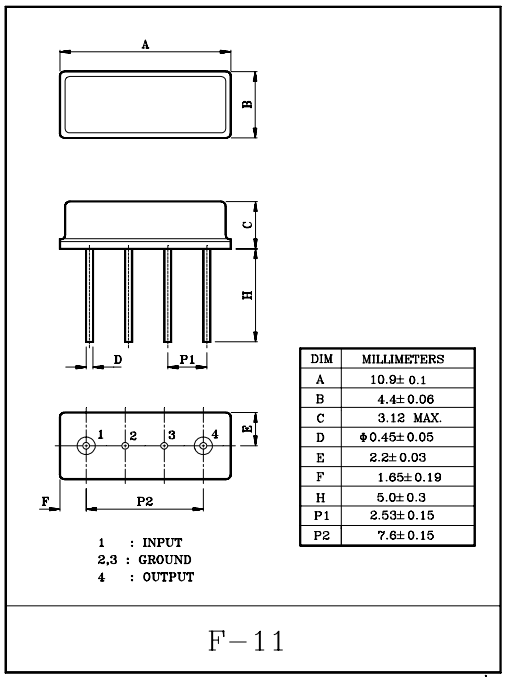
Band pass filters for RF circuits of ISM Cordless phone

- 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.
- KF903A : F-11 Package.
  KF903AV : SC-44 Package.



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

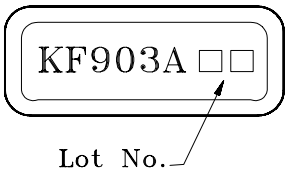
F-11

MAXIMUM RATINGS (Ta=25℃)

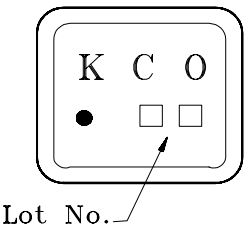
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	IS_{max}	10	dBm
DC Permissive Voltage	V_{DC}	0	V
Operating Temperature Range	T_{opr}	-10~+60	℃
Storage Temperature Range	T_{stg}	-40~+85	℃

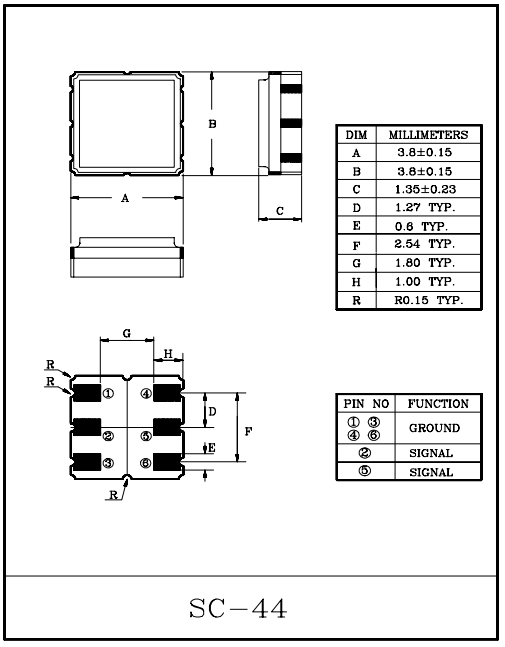
MARKING

(F-11)



(SC-44)





DIM	MILLIMETERS
A	3.8±0.15
B	3.8±0.15
C	1.35±0.23
D	1.27 TYP.
E	0.6 TYP.
F	2.54 TYP.
G	1.80 TYP.
H	1.00 TYP.
R	R0.15 TYP.

PIN NO	FUNCTION
① ③ ④ ⑥	GROUND
②	SIGNAL
⑤	SIGNAL

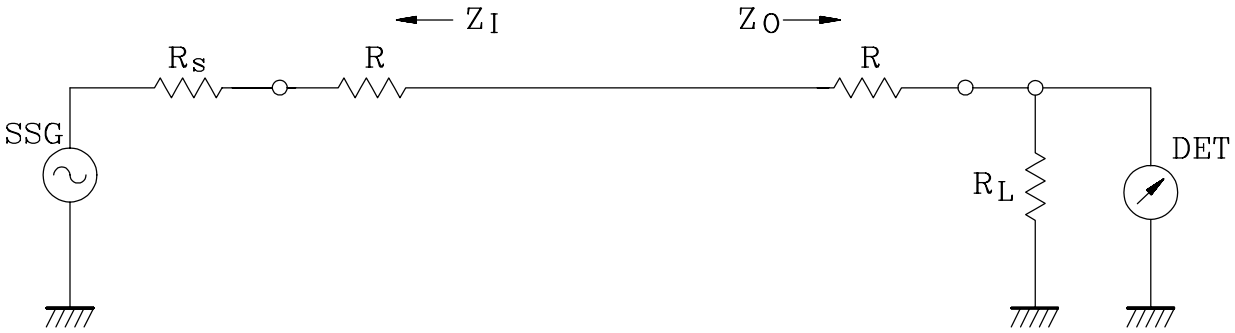
SC-44

ELECTRICAL CHARACTERISTICS (Temperature 25±2℃, Humidity 65±5%)

ITEMS	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Nominal Center Frequency	fo	-	-	903	-	MHz
Bandwidth	BW_{3dB}	-	f_O±1.2	-	-	MHz
Insertion Loss	IL_{PASS}	f_O±1.2MHz	-	3.8	4.5	dB
Ripple Level	A_{RIP}	f_O±1.2MHz	-	-	1.5	dB
Rejection Level	IL_{STOP}	f_O-45~f_O-40MHz	45	49	-	dB
		f_O+23~f_O+25MHz	20	29	-	dB
		f_O+40~f_O+45MHz	40	55	-	dB
Input/Output Impedance	$Z_I(Z_O)$	-	-	50Ω	-	-

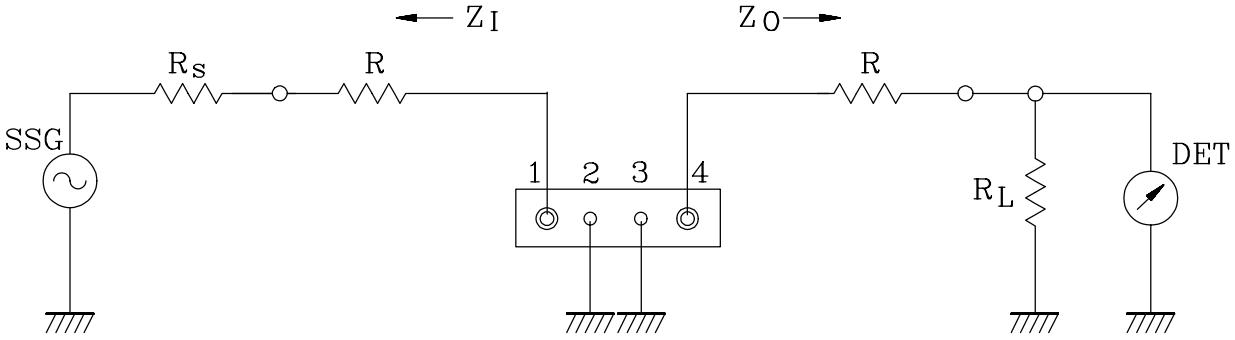
TEST CIRCUIT

REFERENCE LEVEL TEST CIRCUIT



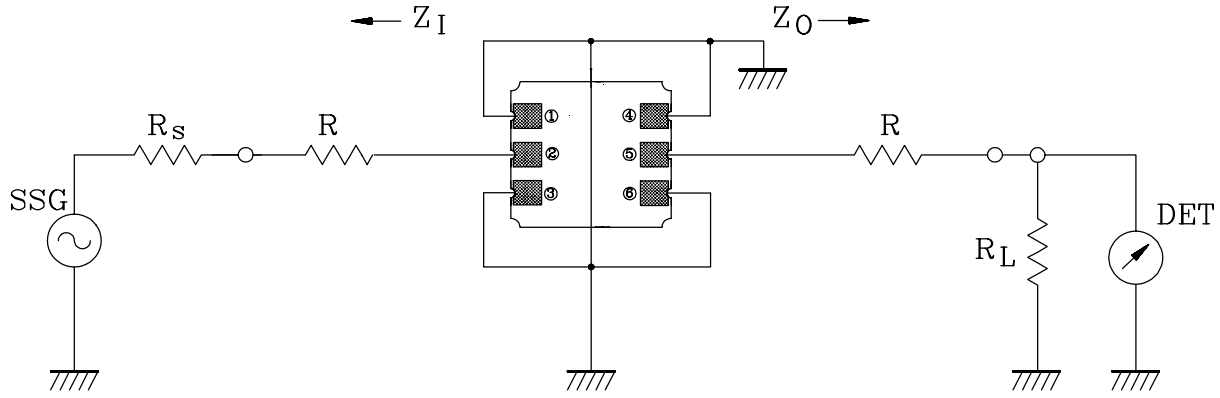
R_S, R_L : 50Ω (Internal Impedance of Source and Load)
R : 0Ω
$Z_I(Z_O)=R_S(R_L)+R$

MEASUREMENT CIRCUIT



1: Input 2,3: Ground 4: Output

R_S, R_L : 50Ω (Internal Impedance of Source and Load)
R : 0Ω
$Z_I(Z_O)=R_S(R_L)+R$



② INPUT ①,③,④,⑥, GROUND ⑤ OUTPUT