

*Using breakthrough technology,
we aim for products that will create new markets.*

New Product News

To widen a range of product

Antenna switch filter

Quad band ANT SW filter

Industry/Field: **Mobile communications**

Realization of quad band with a dimension of existing ASM



Development Target:

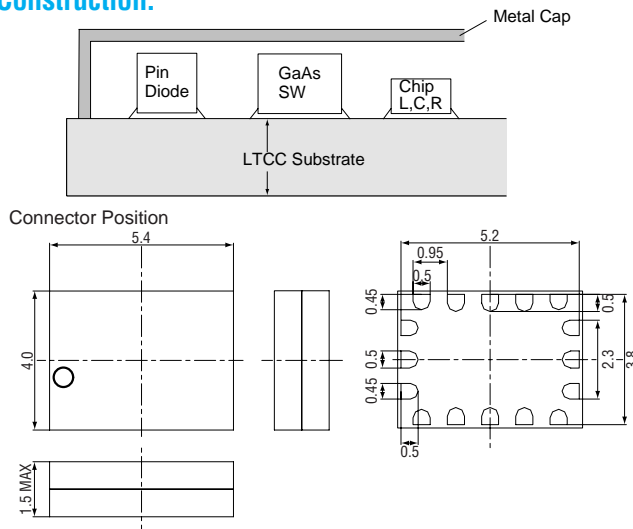
To enter into the market of multi band mobile communications industry (GSM850,EGSM,DCS,PCS)

Features:

- 1** Low electric current consumption at RX (50μA max.)
- 2** Multi-band switching
- 3** Low profile (1.5mm max.)

Number of industrial property rights: 42(Pending)

Construction:



Characteristics/specifications:

GSM TX - ANT

Pass Band	824-915 MHz
Insertion Loss	1.2 max. dB
VSWR	2.0 max.
Attenuation	1648-1830 [MHz] 30 min. dB 2472-2745 [MHz] 30 min. dB
Isolation (Vc1=High)	35 min. dB
GSM TX - GSM850 RX,EGSM RX	
Harmonic generation	2nd ftx -70 dBc 3rd ftx -65 dBc

ANT-GSM850 RX

Pass Band	864-894 MHz
Insertion Loss	1.2 max. dB

ANT-EGSM RX

Pass Band	925-960 MHz
Insertion Loss	1.2 max. dB

ANT-DCS RX

Pass Band	1805-1880 MHz
Insertion Loss	1.4 max. dB

DCS/PCS TX - ANT

Pass Band	1710-1910 MHz
Insertion Loss	1.4 max. dB
VSWR	2.0 max.
Attenuation	3420-3820 [MHz] 30 min. dB 5130-5730 [MHz] 25 min. dB
Isolation (Vc2=High)	35 min. dB
DCS/PCS TX - DCS RX,PCSRX	
Harmonic generation	2nd ftx -67 dBc 3rd ftx -65 dBc

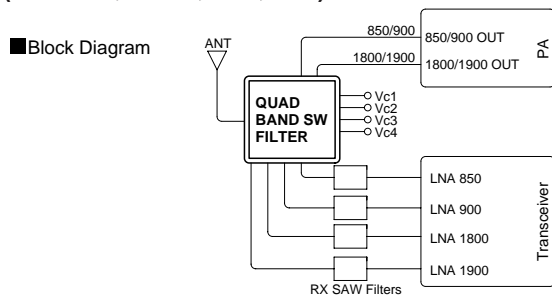
ANT-PCS RX

Pass Band	1930-1990 MHz
Insertion Loss	1.4 max. dB

current consumption	
lc1,lc2(TX)(Vc1,2=2.6[V])	10 max. mA
lc3,lc4(RX)(Vc3,4=2.6[V])	50 max. μA

Applications/usage examples:

RF component for multi band mobile communications (GSM850,EGSM,DCS,PCS)



Explanation of part numbers:

