KODENSHI AUK

ND102M6L

Antenna Switching Diode Array (6 in 1)

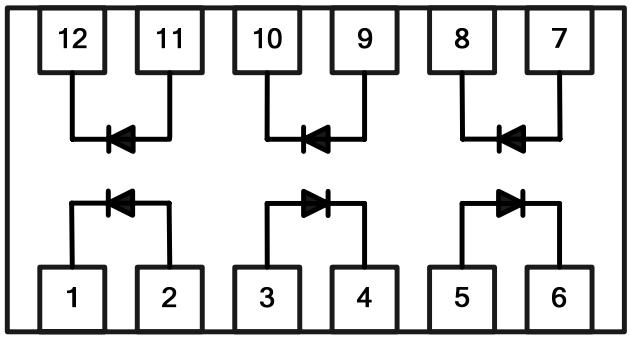
Features

- 6 channel 1 package type Antenna Switching Diode Array
- Low capacitance : Max.0.35pF
- Low series resistance : rs= 1.1Ω(Typ.)@I_F=10mA
- GSM Mobile ASM/FEM Module RF Switch Applications [Triple-Band Switching Diode]

Ordering Information

Type No.	Marking	Package Code
ND102M6L	P1	12PDFN

Pin Assignment



Pin Assignment

[Top View]

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Continuous reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V_R	I_R= 10μA	30	-	-	V
Reverse current	I_R	V_R= 30V	-	-	0.1	μA
Forward voltage	V_F	I_F= 50mA	-	0.90	-	V
Total capacitance	C_T	V_R= 1V, f= 1MHz	-	0.3	0.35	pF
Series resistance	r_S	I_F= 10mA, f= 100MHz	-	1.1	1.5	Ω
Insertion Loss	$\|S_{21}\|^2$	I_F = 1mA, f = 1.8GHz	-	-0.23	-	dB
		I_F = 5mA, f = 1.8GHz	-	-0.1	-	dB
		I_F = 10mA, f = 1.8GHz	-	-0.08	-	dB
Isolation [Return Loss]	$\|S_{12}\|^2$	V_R = 0V, f = 0.9GHz	-	-19	-	dB
		V_R = 0V, f = 1.8GHz	-	-14	-	dB
		V_R = 0V, f = 2.4GHz	-	-11	-	dB

Electrical Characteristic Curves

Fig. 1 r_S - I_F

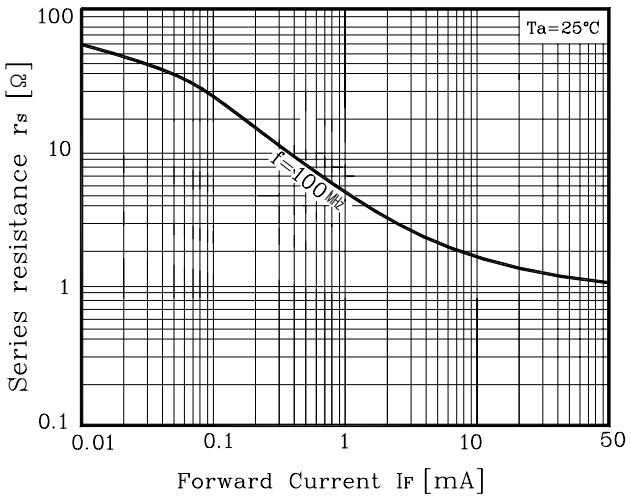


Fig. 2 C_T - V_R

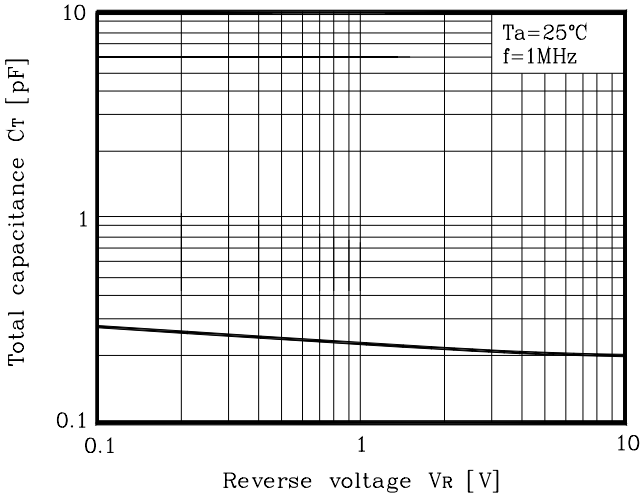


Fig. 3 I_F - V_F

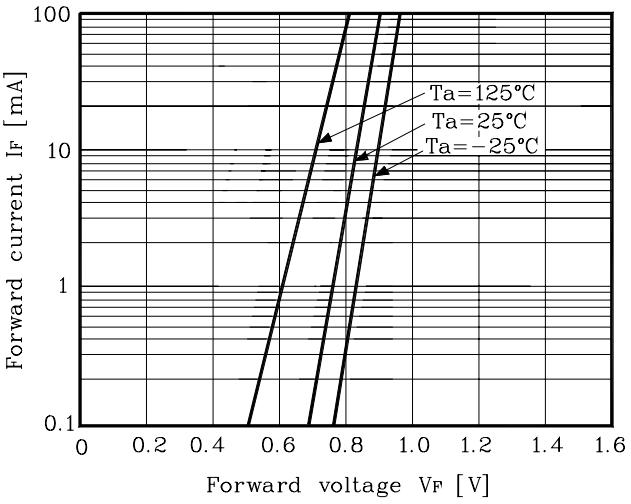


Fig. 4 Insertion Loss $|S_{21}|^2 = f(f)$

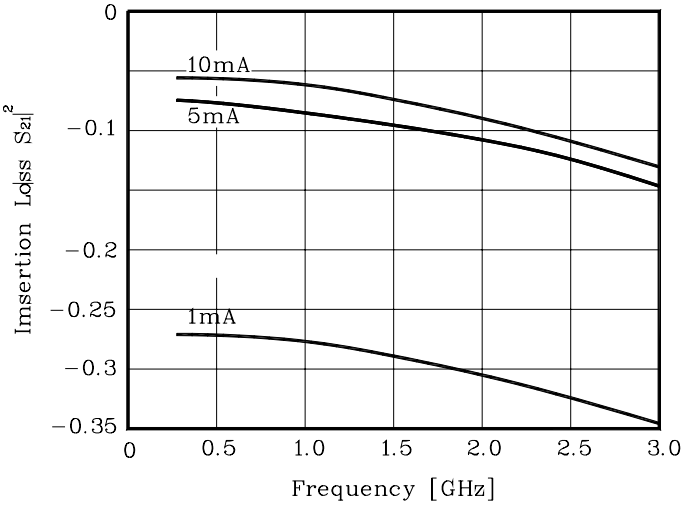
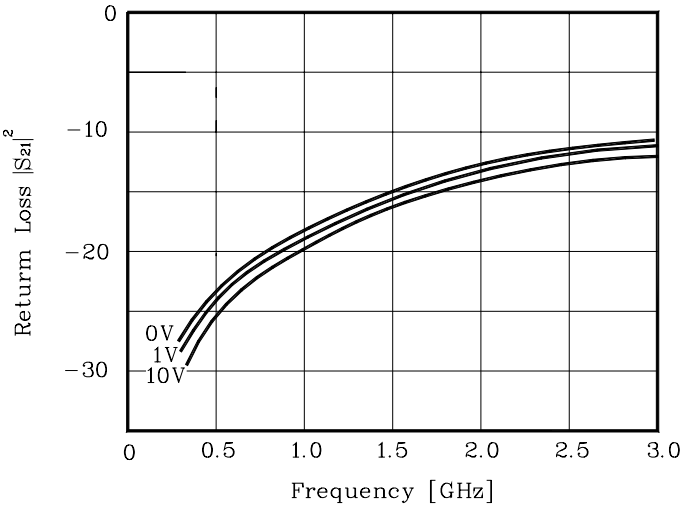
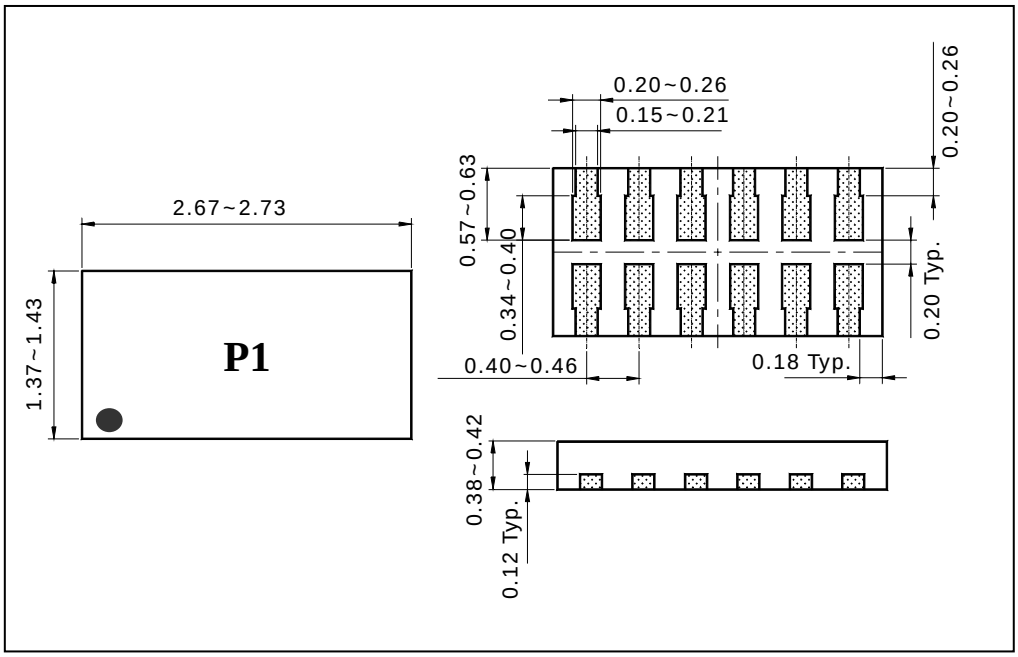


Fig. 5 Return Loss $|S_{12}|^2 = f(f)$ [Isolation]



Outline Dimensions [unit : mm]



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.