



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

VF001S6 — 2 Channel EMI Filter with ESD Protection

Features

- EMI Filter 2 channel ($f_c=90\text{MHz}$).
- Contact discharge 20kV guarantee (IEC61000-4-2).
- Small-size 6-pin package (SCH6 : 1.6 × 1.6 mm)

Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Junction Temperature	T_j		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1\text{mA}$	6		8	V
Reverse Current	I_R	$V_R=3.3\text{V}$			1	μA
Line Capacitance	C	$V_{IN}=0\text{V}$, $f=1\text{MHz}$		60		pF
Line Resistor	R	$I=10\text{mA}$	40		60	Ω
Cut Off Frequency	f_c	$V=0\text{V}$		90		MHz
Electrostatic Breakdown Voltage	V_{ESD}	$C=150\text{pF}$, $R=330\Omega$, Contact discharge (IEC61000-4-2)	20			kV

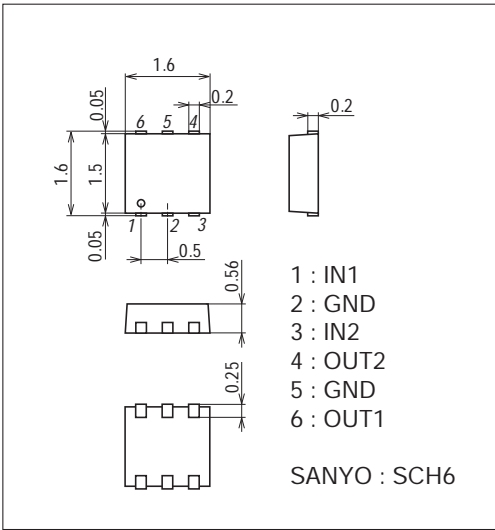
Marking : G1

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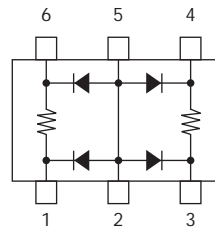
Package Dimensions

unit : mm (typ)

7028-009



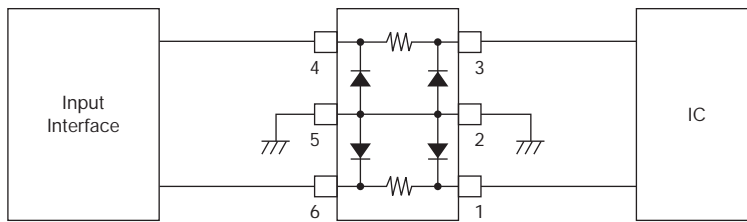
Electrical Connection



- 1 : IN1
- 2 : GND
- 3 : IN2
- 4 : OUT2
- 5 : GND
- 6 : OUT1

Top view

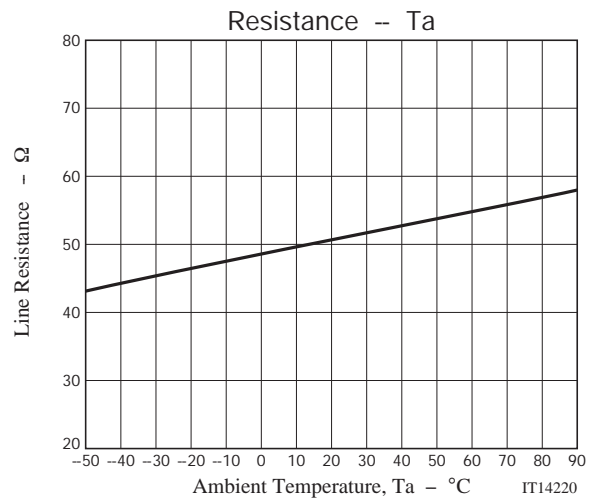
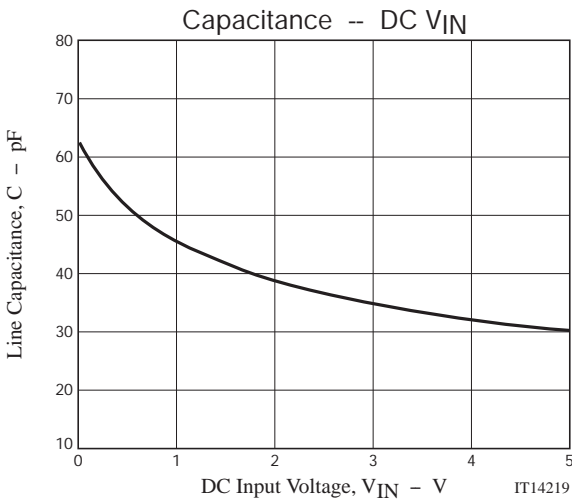
Application Example

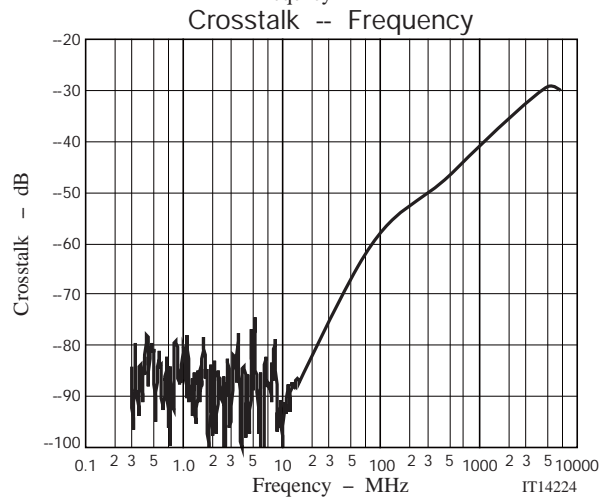
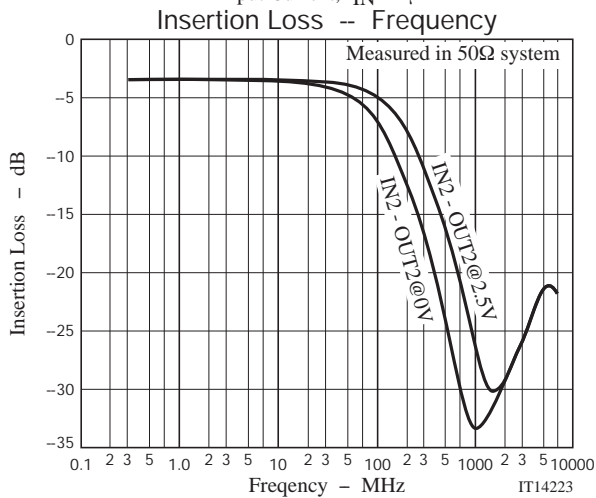
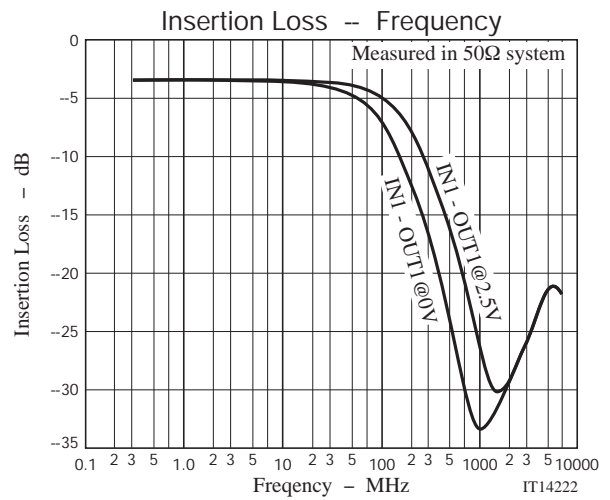
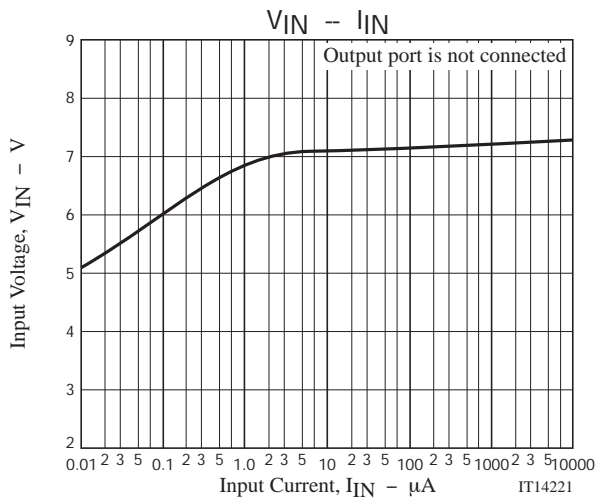


example : Keypad
 SIM card
 SD card

* Since the filter circuits are symmetrical, all terminals can be used as input/output port.

IT14225





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