



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CPINU5208-HF

RoHS Device
Halogen Free

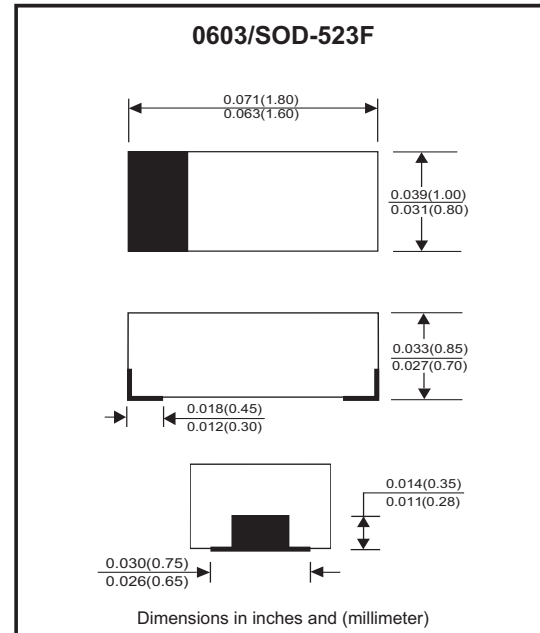


Features

- Suitable for Antenna Switches in Portable Two-way Radios.
- Very Low Series Resistance.
- Low Capacitance.

Mechanical data

- Case: 0603/SOD-523F molded plastic package.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.003 grams(approx.).



Circuit Diagram



Maximum Rating (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	35	V
Power Dissipation (Note 1)	P_D	300	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}\text{C}$

Note: 1.Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm).

Electrical Characteristics (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse Current	$V_R = 35\text{V}$	I_R	-	-	10	μA
Reverse Current	$V_R = 25\text{V}$	I_R	-	-	100	nA
Forward Voltage	$I_F = 10\text{mA}$	V_F	-	-	1.0	V
Diode Capacitance	$V_R = 20\text{V}$, $f = 100\text{MHz}$	C_T	-	-	0.9	pF
Forward Series Resistance	$I_F = 10\text{mA}$, $f = 100\text{MHz}$	R_{fs}	-	0.45	0.70	Ω

Company reserves the right to improve product design, functions and reliability without notice.

TYPICAL RATING AND CHARACTERISTIC CURVES (CPINU5208-HF)

Fig.1 - Forward Current VS. Forward Voltage

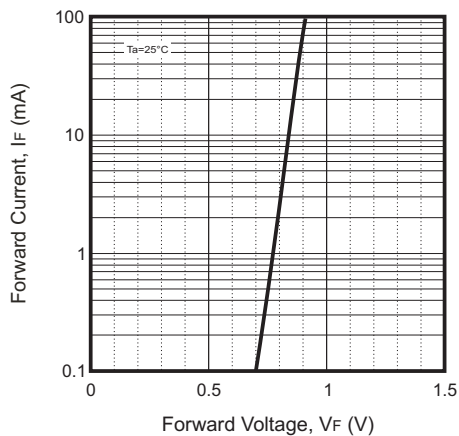


Fig.2 - Reverse Current VS. Reverse Voltage

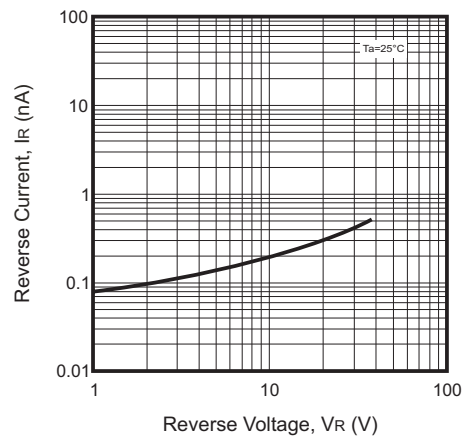


Fig.3 - Forward Series Resistance VS. Forward Current

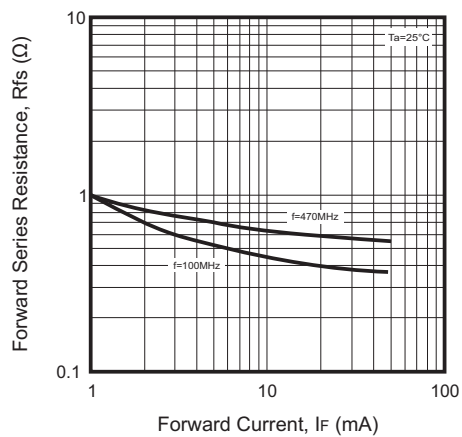
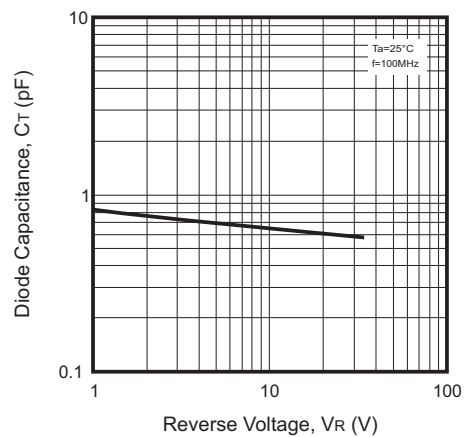
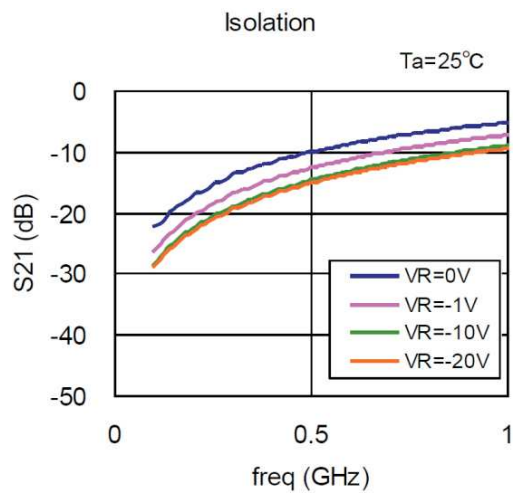
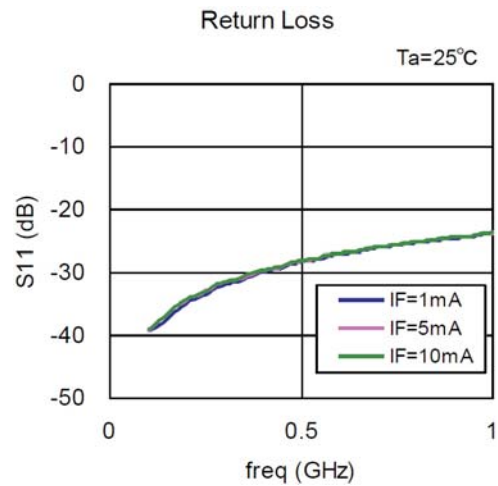
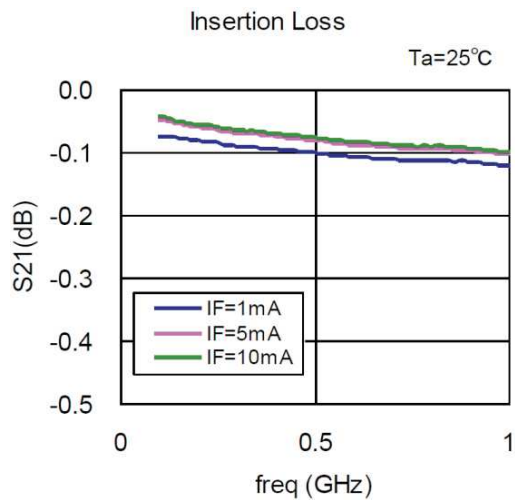


Fig.4 - Diode Capacitance VS. Reverse Voltage

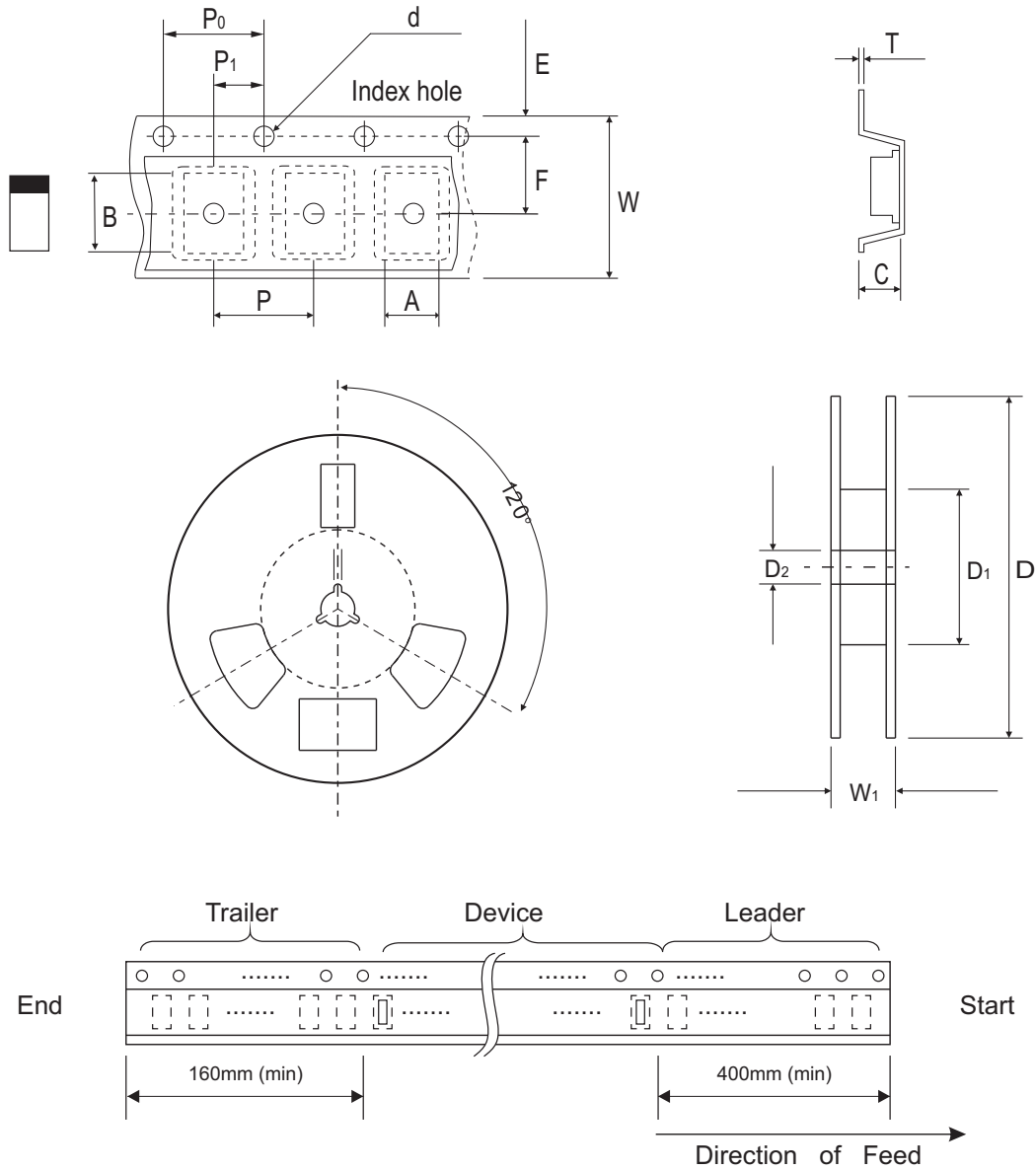


TYPICAL RATING AND CHARACTERISTIC CURVES (CPINU5208-HF)



Note: Series configuration. $Z_0=50\Omega$
 Losses of test fixtures are excluded from the measuring data.

Reel Taping Specification



0603 (SOD-523F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.16 ± 0.10	1.90 ± 0.10	0.95 ± 0.10	1.50 + 0.10 - 0	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.046 ± 0.004	0.075 ± 0.004	0.037 ± 0.004	0.059 + 0.004 - 0	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

0603 (SOD-523F)	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.22 + 0.10 - 0.05	8.00 ± 0.20	12.00 + 0.50 - 0
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.009 + 0.004 - 0.002	0.315 ± 0.008	0.472 + 0.020 - 0

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Marking Code

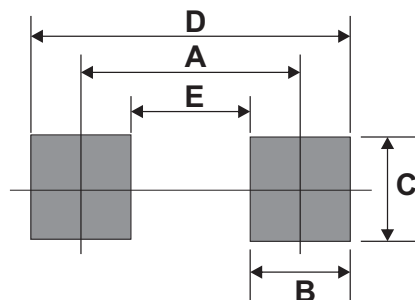
Part Number	Marking Code
CPINU5208-HF	L2XXX



XXX = Lot code (3~4 digits)

Suggested PAD Layout

SIZE	0603/SOD-523F	
	(mm)	(inch)
A	1.70	0.067
B	0.60	0.024
C	0.80	0.031
D	2.30	0.091
E	1.10	0.043



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0603/ SOD-523F	4,000	7