



»Absolute Maximum Rating

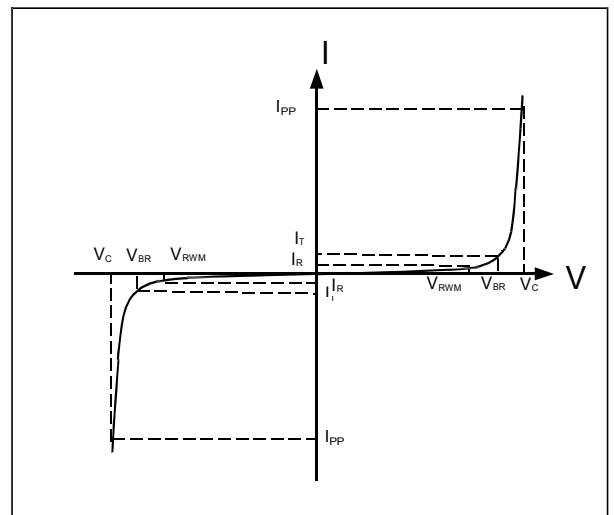
Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p = 8/20\mu s$ )	$P_{PP}$	70	Watts
Peak Pulse Current ( $t_p = 8/20\mu s$ )(note1)	$I_{pp}$	3.5	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	15 8	kV
Lead Soldering Temperature	$T_L$	260(10seconds)	°C
Junction Temperature	$T_J$	-55 to + 125	°C
Storage Temperature	$T_{stg}$	-55 to + 125	°C

»Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	$V_{RWM}$				5.0	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	6.0	7.2	9.5	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 5V, T = 25^\circ C$		0.1	0.5	$\mu A$
Peak Pulse Current	$I_{PP}$	$t_p = 8/20\mu s$			3.5	A
Clamping Voltage	$V_C$	$I_{PP} = 3.5A, t_p = 8/20\mu s$			20	V
Junction Capacitance	$C_j$	$V_R = 0V, f = 1MHz$ I/O to I/O		0.28	0.4	pF
		$V_R = 0V, f = 1MHz$ I/O to GND		0.28	0.4	pF

»Electrical Parameters (TA = 25°C unless otherwise noted)

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current



Note: 8/20 $\mu s$  pulse waveform.

»TypicalCharacteristics

Fig.1 IEC61000-4-2Waveform

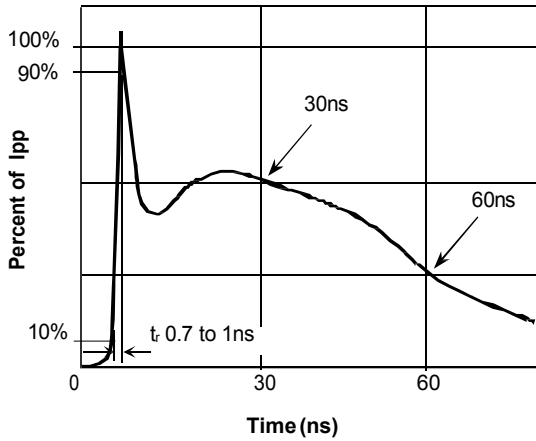


Fig.2 IEC61000-4-2 +8kV ContactESD ClampingWaveform

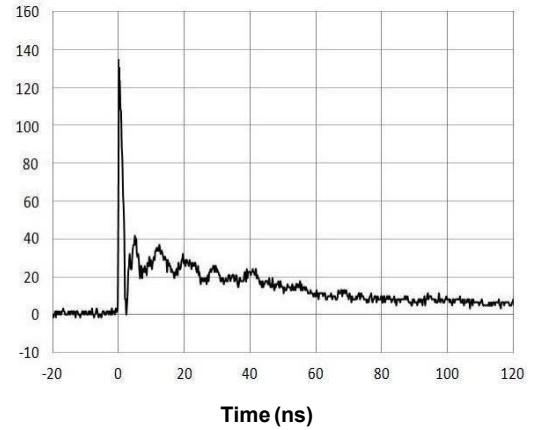


Fig.3 Eye Diagram - perchannel

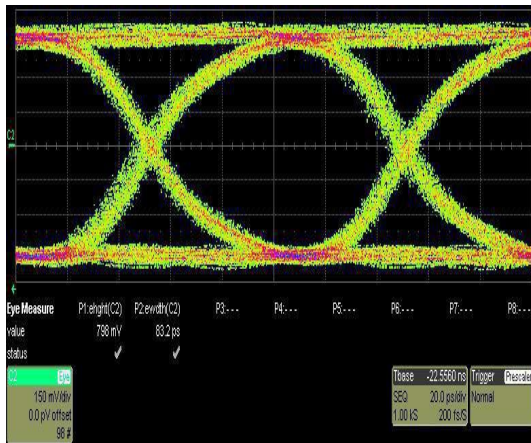
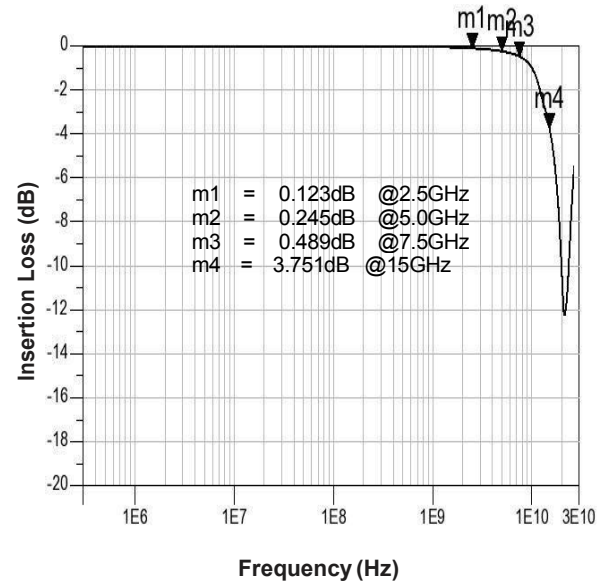
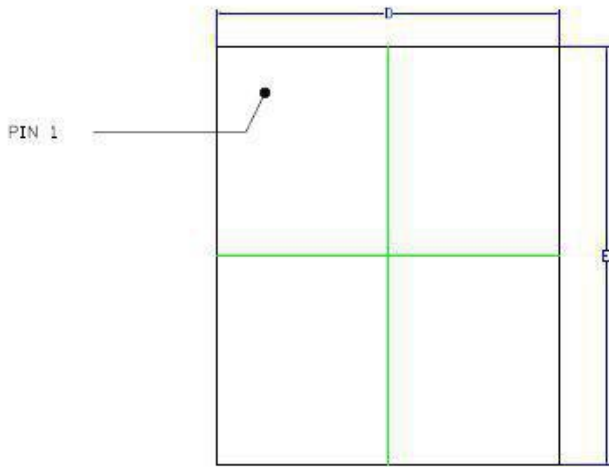


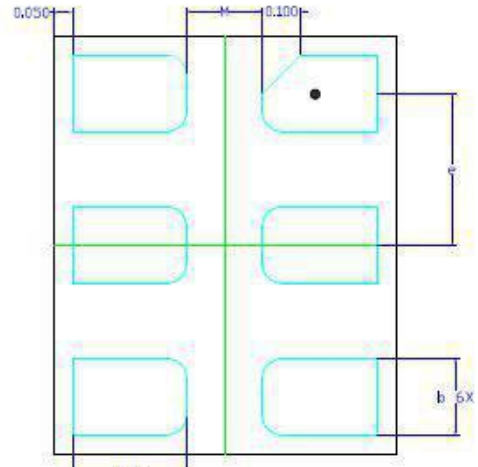
Fig.4 Insertion Loss S21 - I/O to/I/O



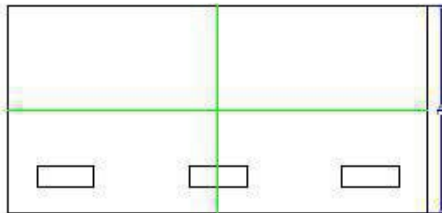
»Outline Drawing – DFN1109



TOP VIEW



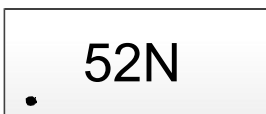
BOTTOM VIEW



SIDE VIEW

COMMON DIMENSION (MM)			
PKG	DFN1109		
REF.	MIN.	NOM.	MAX
A	0,40	0,45	0,50
D	0,85	0,90	0,95
E	1,05	1,10	1,15
b	0,15	0,20	0,25
L	0,25	0,30	0,35
e	0,35	0,40	0,45
M	0,15	0,20	0,25

»Marking



»Ordering information

Order code	Package	Base qty	Delivery mode
RClamp0502N-N	DFN1109	3000	Tape and reel