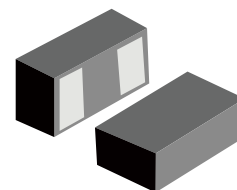
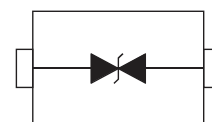


FEATURES

- | ESD protection for high speed data lines to IEC61000-4-2
- | ESD contact discharge typical 8KV, max 15KV
- | ESD air discharge typical 15KV, max 25KV
- | Surface mount
- | Extremely low capacitance
- | Very low leakage current
- | Fast response time
- | Bi-directional ESD protection
- | Lead free solder termination
- | The best ESD protection for high frequency, low voltage applications



0402



Schematic Symbol

APPLICATIONS

- | High Definition Multi-Media Interface (HDMI)
- | Digital Visual Interface (DVI)
- | Display Port Interface (DP)
- | Unified Display Interface (UDI)
- | Mobile Display Digital Interface (MDDI)
- | Gigabit Ethernet
- | USB2.0 and USB3.0
- | IEEE1394 interface

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

CAUTION

- | This component is designed for signal line protection only, Not intended to be used under bias, not for application with a power line.

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
-	Maximum Contact discharge voltage Per IEC61000-4-2	15KV	V
-	Maximum Air discharge voltage Per IEC61000-4-2	25KV	V
T _{OPER}	Maximum Operating temperature	-40 to +90	°C
T _{STG}	Maximum Storage temperature	-55 to +125	°C
T _L	Maximum lead temperature for soldering during 10s	260	°C

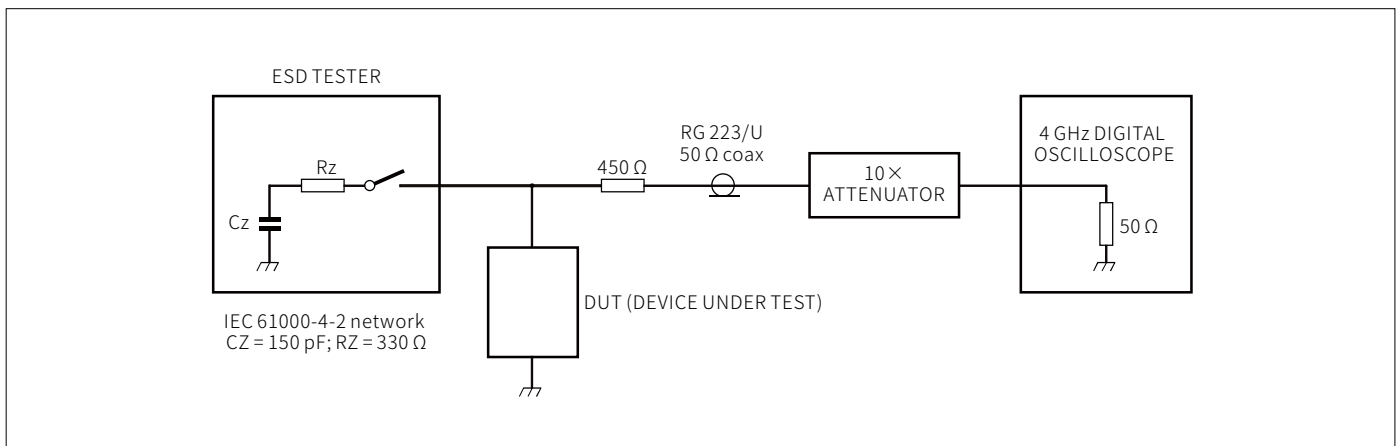
ELECTRICAL CHARACTERISTICS (T_A=25°C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _R	Rated Voltage	-	-	-	5	V
V _T	Trigger Voltage	IEC61000-4-2 8KV contact discharge	-	300	-	V
V _C	Clamping Voltage	IEC61000-4-2 8KV contact discharge	-	35	-	V
I _L	Leakage Current	DC 5V shall be applied on component	-	-	0.10	μA
C _P	Capacitance	V _R = 0V, f = 1MHz	-	0.05	-	pF

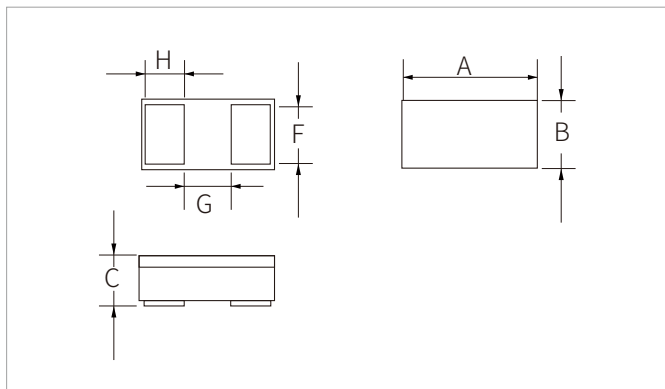
Note:

1. Trigger and clamping voltage are measured per IEC 61000-4-2, 8KV contact discharge method.
2. After reliability tests such as high temp storage, temp cycles, continuous ESD strike etc, the maximum leakage current is less than 10uA.

ESD CLAMPING TEST

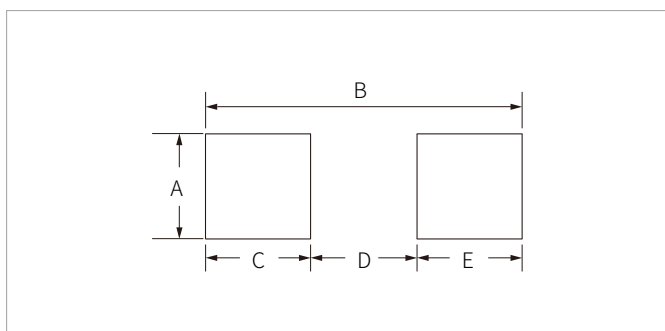


PACKAGE INFORMATION



Ref.	Dimension			Unit
	Min.	Typ.	Max.	
A	0.95	1.0	1.05	mm
B	0.45	0.50	0.55	
C	0.32	0.36	0.40	
H	0.28	0.30	0.32	
F	0.41	0.43	0.45	
G	0.32	0.34	0.36	

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Dimension	Unit
A	0.55	mm
B	1.05	
C	0.40	
D	0.25	
E	0.40	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SAE0402B5.0UA	0402	10000PCS	7"

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By QR Code

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