

FEATURES

| ESD contact discharge typical 8KV, max 15KV

| ESD air discharge typical 15KV, max 25KV

Surface mount

| Extremely low capacitance

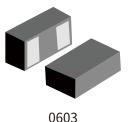
I Very low leakage current

Fast response time

| Bi-directional ESD protection

Lead free solder termination

The best ESD protection for high frequency, low voltage applications





Schematic Symbol

APPLICATIONS

ı	High Definition	Multi-Media	Interface	(HDMI)	
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- | 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		V
-	- Maximum Air discharge voltage Per IEC61000-4-2 25KV		V
T _{OPER}	T _{OPER} Maximum Operating temperature -40 to +		°C
T _{STG}	T _{STG} Maximum Storage temperature -55 to +125		°C
T _L	T _L Maximum lead temperature for soldering during 10s 260		°C

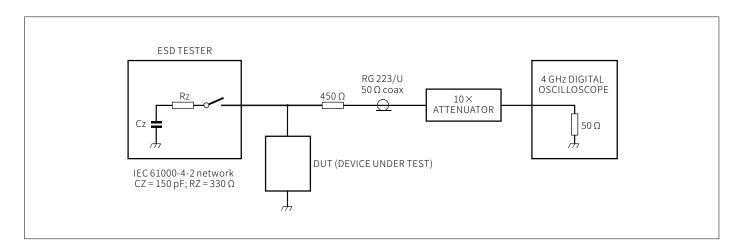
ELECTRICAL CHARACTERISTICS(T_A=25°C)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
V_R	Rated Voltage	-	-	-	5	V
V _T	Trigger Voltage	IEC61000-4-28KV contact discharge	-	300	-	V
V _C	Clamping Voltage	IEC61000-4-28KV contact discharge	-	35	-	V
l _L	Leakage Current	DC 5V shall be applied on component	-	-	0.10	μΑ
C _P	Capacitance	$V_R = 0V, f = 1MHz$	-	0.05	-	pF

Note:

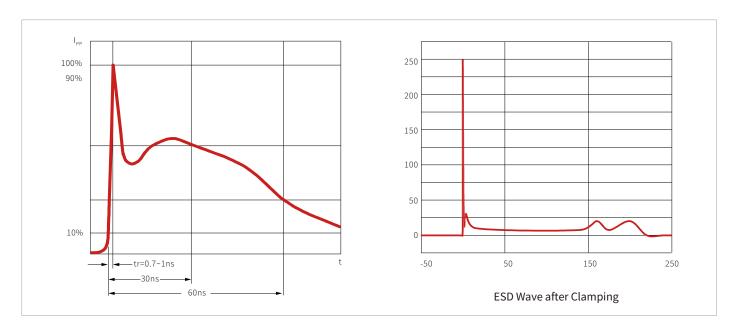
- 1, Trigger and clamping voltage are measured per IEC 61000-4-2, 8KV contact discharge method.
- $2. After \ reliability \ tests \ such as \ high \ temp \ storage, temp \ cycles, continuous \ ESD \ strike \ etc, the \ maximum \ leakage \ current \ is \ less \ than \ 10 uA.$

ESD CLAMPING TEST



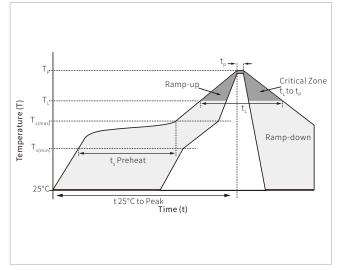


CHARACTERISTIC CURVES



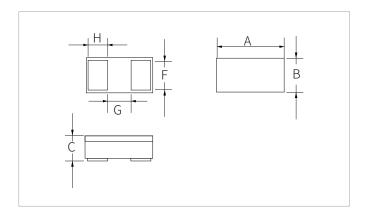
SOLDERING PARAMETERS

	Lead-free assembly		
	Temperature Max (T _{s(min)})	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t_s)	60 – 180 secs	
Average ran	Average ramp up rate (Liquidus Temp (T _L) to peak		
T _{s(max)} to T _L - Ramp-up Rate		3°C/second max	
Reflow	Temperature (T _L) (Liquidus)	217°C	
Kellow	Time (min to max) (t_L)	60 – 150 seconds	
Peak Temperature (T _P)		260°C	
Time within	20 – 40 seconds		
Ramp-dow	6°C/second max		
Time 25°C t	8 minutes max.		
Do not exce	260°C		



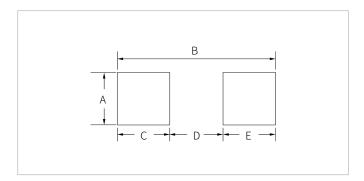


PACKAGE INFORMATION



Ref.	Dimension				
KCI.	Min.	Тур	Max.	Unit	
А	1.50	1.60	1.70		
В	0.70	0.80	0.90		
С	0.32	0.36	0.40	m m	
Н	0.345	0.365	0.385	mm	
F	0.715	0.735	0.735		
G	0.78	0.80	0.82		

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Dimension	Unit
А	0.84	
В	1.64	
С	0.47	mm
D	0.7	
Е	0.47	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SAE0603B5.0UA	0603	5000PCS	7"



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By QR Code





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