

## Re: Component ID

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.repair/2006-08/msg00252.html>

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- *From:* "Arfa Daily" <[arfa.daily@xxxxxxxxxxxxx](mailto:arfa.daily@xxxxxxxxxxxxx)>
  - *Date:* Sat, 05 Aug 2006 09:46:24 GMT
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"Dick" <[poland468@xxxxxxxxxxxxx](mailto:poland468@xxxxxxxxxxxxx)> wrote in message  
[news:HFLAg.16\\$AF1.8@xxxxxxxxxxxxx](mailto:news:HFLAg.16$AF1.8@xxxxxxxxxxxxx)

Model of the phone is KX-TG5431 and is less than a year old,also the FCCID  
is: ACJ96NKX-TG5438.

I have tried NTE online cross without success and like I said I went to  
ST's web site without any results.

Thanks for your help and I will keep trying .

"Franc Zabkar" <[fzabkar@xxxxxxxxxxxxxxxxxxxxx](mailto:fzabkar@xxxxxxxxxxxxxxxxxxxxx)> wrote in message  
[news:b355d259j26gnmqupe0su098qncd6m86q4@xxxxxxxxxxx](mailto:news:b355d259j26gnmqupe0su098qncd6m86q4@xxxxxxxxxxx)

On Thu, 03 Aug 2006 17:23:58 GMT, "Dick" <[poland468@xxxxxxxxxxxxx](mailto:poland468@xxxxxxxxxxxxx)>  
put  
finger to keyboard and composed:

I couldn't find SA102 or SA103,I did find a blank spot that  
was marked  
SA102  
on the circuit board.  
I removed SA101 and it tested open with my ohm meter,then  
I removed SA104  
and it tested  
short and that looks like it comes off of the power supply  
input. I don't  
know what is right . I couldn't tell where SA101 was off  
from as I  
couldn't  
follow the trace because it is on both sides of the board and  
had been  
coated .  
Is there any place a person could look up the ID numbers and  
find out  
just  
what these components are ?

If the part is an overvoltage protection device, then the part number

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sometimes reflects the device's spec. For example, the "51" may suggest a breakdown voltage of 50V. The "7" may be a physical dimension or an energy rating. Varistors are usually numbered in this way.

FWIW, the service manuals for some Panasonic phones refer to Surge Absorbers, but I don't remember ever encountering an SAxxx circuit reference.

What is the model of your phone?

I went to ST's web site and I couldn't even find the number's there.

Used to be you could cross numbers from RCA,NTE.ECG books and find just about anything about semi conductors, but that was years ago.

NTE Cross Reference Search:

[http://nte01.nteinc.com/nte/NTEExRefSemiProd.nsf/\\$\\$Search?OpenForm](http://nte01.nteinc.com/nte/NTEExRefSemiProd.nsf/$$Search?OpenForm)

I do believe someone out there has a book , but I am having trouble finding that someone.

I have an NTE printed catalogue from 1990-91.

Thanks

"Franc Zabkar" <fzabkar@xxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:anh3d2laqn1brklc3upa66bukncgnrkkg@xxxxxxxxxxx](mailto:news:anh3d2laqn1brklc3upa66bukncgnrkkg@xxxxxxxxxxx)

On Wed, 02 Aug 2006 21:59:26 GMT,  
"Dick" <poland468@xxxxxxxxxxxxxxxx> put  
finger to keyboard and composed:

The number is correct but it  
is a surface mount small  
block with 3  
lines  
on  
lettering with two solder

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pads ,one on each end . the  
first line has a  
logo  
ST E,

ST = ST Microelectronics ?

the second line QAJ and the  
third has C517 . If it is a  
surge  
arrestor ,how do I test them?  
With an Ohm meter ?

I would think that surge arrestors should test  
open circuit at normal  
voltage levels. I suspect such devices would  
be near the tip and ring  
inputs. Are there two other SAs, ie SA102  
and SA103? If so, do they  
have recognisable part numbers or logos?

If the devices are indeed surge arrestors,  
then you could probably  
remove them for troubleshooting purposes.

Thanks

"Franc Zabkar"  
<fzabkar@xxxxxxxxxxxxxxxxxxxx>  
wrote in message  
[news:u832d21p3k7tfflk80cnqi3hlphngpdka@xxxxxxxxxxx](mailto:news:u832d21p3k7tfflk80cnqi3hlphngpdka@xxxxxxxxxxx)

On Wed, 02  
Aug 2006  
18:00:17  
GMT,  
"Dick"  
<poland468@xxxxxxxxxxxx>  
put  
finger to  
keyboard  
and  
composed:

Re: Component ID

I  
am  
working  
on  
a  
Panasonic  
cordless  
phone  
(dead).  
On  
the  
main  
circuit  
board  
in  
the  
base  
unit  
that  
are  
all  
SMD.  
The  
parts  
that  
I  
need  
are  
ID'D  
by  
SA101  
and  
SA104(I  
don't  
know  
what  
an  
"SA"  
is).

Surge  
Arrestor?  
Does it have  
2 pins?

The  
number  
on  
the

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part  
is  
QAJC517  
and  
is  
black  
with  
no  
other  
marks  
on  
it.  
Thanks

The "QAJ"  
looks like a  
suffix. Are  
you sure the  
number is  
correct?

– Franc  
Zabkar

--  
Please  
remove one  
'i' from my  
address  
when  
replying by  
email.

– Franc Zabkar

--  
Please remove one 'i' from my address when  
replying by email.

– Franc Zabkar

--  
Please remove one 'i' from my address when replying by email.

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I have just looked through my Panasonic phone equipment manuals, and all employ devices designated " SAxxx ". On all of them, the parts list shows " varistor ( surge arrester ) ", so Franc is definitely right that this is what they are. This being the case, I would expect them to read open circuit on a normal multimeter. Looking on the schematics, these devices are connected across the line connections to protect against surges caused by near-hit lightning, inducing big spikes in the service provider's lines. If this is the case, then they need to be rated well beyond the peak ring voltage that the phone will encounter. I would think that they could be readily replaced with similar devices from any phone, or even from a scrap dialup modem board. My friend who builds computers for a living, has these boards coming out of his ears these days.

Arfa