

Re: standard size for smt tantalums?

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- *From:* "B. Spitzer" <yum-y.um@xxxxxx>
 - *Date:* Tue, 5 Jul 2005 21:52:22 +0200
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Hi Michael,

> Hi – I was just wondering – I've noticed that there are very few
> tantalums made in the standard discrete surface mount sizes (1206,
> 0805, etc.). I was able to find a very limited selection of such
They have standard-sizes. Only the smallest fits a 1206 pad. (in millimeters:

1.2 x 0.1 inch = 3.05mm, 0.6 x 0.1 inch = 1.53mm so an 1206 equals a (non-existing) 3116 sized tantalum...)

The sizes are coded A or in Numbers 3216 (which means 3.2mm x 1.6mm), B (3228), C (6032), D (7343) and E (same as D but greater hight). Sometimes additional sizes are available (depending on the Manufacturer.

Check out AVX, Murata, TDK

e.g. <http://www.avx.com/docs/catalogs/taj.pdf>

> capacitors made by TAC (for example, Digi-Key part # 478-2562-1-ND).
> But these are expensive (over \$2 each for an 0805 in quantites of
> 100, compared to \$.50 for similarly specced tantalums in different
> packages). So my question is this: Are there standard sizes for
> tantalums? Or does each manufacturer have their own sizes?
As others already mentioned... these might be ceramic caps.

> As long as I'm on the topic of tantalums – can somebody tell me why
> they are reccomended for power smoothing? Would a ceramic work just
> as well? (as they're cheaper and available in sizes I'm more used to)
Ceramics work much better (lower ESR, long-term stability) but are much more expensive (you mentioned \$2 each).

Many (not cost-sensitive) designers prefer to use ceramics, since they are much more reliable than tantalums.

cu

Bernhard Spitzer

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bash.org – Top 100...

<erno> hm. I've lost a machine.. literally `_lost_`. it responds to ping, it works completely, I just can't figure out where in my apartment it is.

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- **References:**

- ◆ **standard size for smt tantalums?**

- ◇ *From:* Michael Noone

- Prev by Date: **Re: ATTENTION!!!!!! We have assumed control.**
- Next by Date: **Digikey policy change on backorders**
- Previous by thread: **Re: standard size for smt tantalums?**
- Next by thread: