

At SBE we want to help you with a complete solution to your capacitor needs, and the information collected in this questionnaire will help understand your need better.

You can print this form. Once completed, you can either scan it and email it to: info@sbelectronics.com or fax it at 802-661-3950. Please add the title "Attn: Applications Engineering" to the fax heading.

Company Name: _____ Engineering Contact: _____

Address: _____

Email: _____ Phone # _____

Application Information

1. What are the length, width, and height of your available space? Could you draw a picture to send along?

l = _____ mm w = _____ mm h = _____ mm

2. What capacitance will you need for your application? Is it driven by current rating or other electrical requirements? Capacitance = _____ μF

3. What is the continuous nominal voltage? VDC = _____ V

4. What is the peak voltage you expect to see and how often/long does it occur?

VDC_{Peak} = _____ V Time @ peak = _____ sec

5. What is the continuous nominal ripple current? I_{ripple} = _____ A

6. What is the peak ripple current you expect to see and how often/long does it occur?

I_{ripple/peak} = _____ A Time @ peak = _____ sec

7. What does your ripple current frequency spectrum look like? Do you have a graphic you are willing to share?

8. What are the thermal boundaries on your system? (i.e. bus temperature & ambient temperature)

T_{bus} = _____ °C T_{ambient} = _____ °C T_{cooling plate} (if applicable) = _____ °C

9. What inductance target you are looking to have? _____ nH

10. What is your life requirement for the capacitor? _____ hours

a. How much of that time is at nominal current and voltage?

11. What IGBT are you using (traditional vs. silicon carbide)?

12. Do you have any other mechanical requirements that need to be considered?