

Broadband Blocks - C04/C06/C08

Description

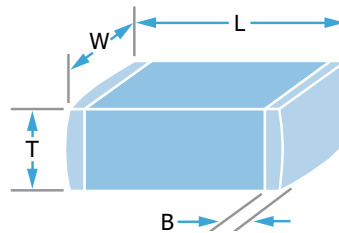
- Resonance free DC Blocking / Decoupling
- Less than 0.25 db loss @ 4 GHz (typical)
- Surface mountable

Functional Applications

- Fiber Optic Links • High Isolation Decoupling
- LAN's, VCO Frequency Stabilization • Diplexers
- RF/Microwave Modules • Instruments • Test Equipments

Mechanical Specification

Product Code	Body Dimensions			Band Dimensions (B)	
	Length (L)	Width (W)	Thickness (T)	Min	Max
C04BL	0.040" ± 0.008"	0.020" ± 0.006"	0.028" Max	0.003"	0.019"
C06 BL	0.060" ± 0.012"	0.031" ± 0.009"	0.036" Max	0.006"	0.03"
C08 BL	0.081" ± 0.020"	0.051" ± 0.013"	0.061" Max	0.012"	0.0468"
C18BL	0.1200" ± 0.025"	0.1100" ± 0.010"	0.100" Max	0.008"	0.045"

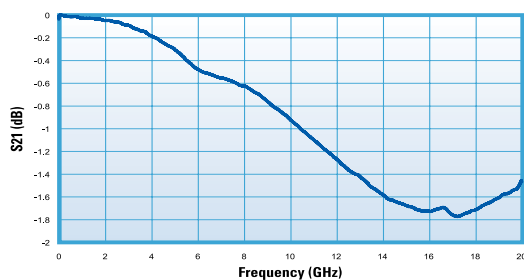


Part Characteristics

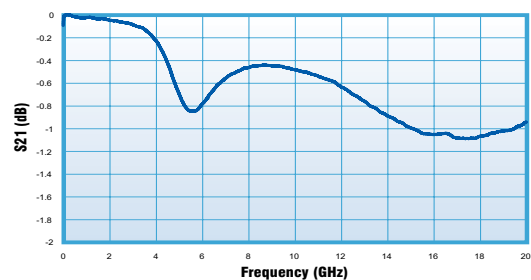
Part Number	Capacitance Guaranteed Minimum Value	Voltage Rating	Temperature Coefficient -55°C to 125°C	Maximum Dissipation Factor	Insulation Resistance (MΩ Minimum)	Aging Rate	Frequency Range	Termination
C04BL121X-5UN-X0T	120pF @ 1KHz, .2Vrms	50 Vdc	± 15%	3.0% @ 1KHz, .2Vrms	10 ⁴	<=1.5% / decade hours	10MHz – 40GHz	"U" & "S"
C06BL851X-1UN-X0T	850pF @ 1KHz, .2Vrms	100 Vdc 50 Vdc					2MHz – 30GHz	"U", "S" & "Z"
C08BL242X-5UN-X0T	2400pF @ 1KHz, .2Vrms	50 Vdc					1MHz – 20GHz	"U", "S" & "Z"
C08BL102X-1UN-X0T	1000pF @ 1KHz, .2Vrms	100 Vdc					1MHz – 20GHz	"U", "S" & "Z"
C18BL103X-4UN-X0T	10,000pF @ 1KHz, .2Vrms	500 Vdc					1MHz – 6GHz	"U", "S" & "Z"

Performance

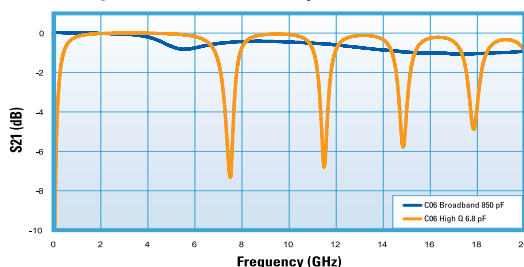
C08BL242X-5UN-X0T Insertion Loss (S21)



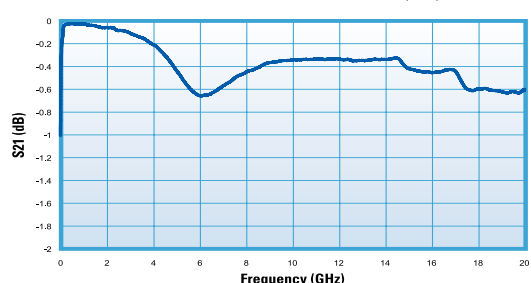
C06BL851X-1UN-X0T Insertion Loss (S21)



High Q & Broadband MLC Compared Insertion Loss (S21)



C04BL121X-5UN-X0T Insertion Loss (S21)



The information above represents typical device performance.

Mouser Electronics

Authorized Distributor

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Dielectric Laboratories:

<u>C18BL103X-4UN-X0B</u>	<u>C04BL121X-5UN-X0T</u>	<u>C08BL242X-5UN-X0T</u>	<u>C08BL102X1-ZN-X0T</u>	<u>C08BL242X-5ZN-X0B</u>
<u>C08BL242X-5UN-X0B</u>	<u>C08BL242X-5SN-X0T</u>	<u>C06BL851X-5UN-X0T</u>	<u>C08BL242X-5ZN-X0T</u>	<u>C06BL851X-5ZN-X0T</u>
<u>C04BL121X-5ZN-X0T</u>	<u>C04BL121X-5SN-X0T</u>	<u>C06BL851X-1SN-X0T</u>	<u>C08BL242X-1UN-X0T</u>	<u>C08BL242X-1ZN-X0T</u>
<u>C08BL242X-1SN-X0T</u>	<u>C06BL851X-1ZN-X0T</u>	<u>C06BL851X-1UN-X0T</u>	<u>C08BL102X1-SN-X0T</u>	<u>C08BL102X5-ZN-X0T</u>
<u>C08BL102X5-SN-X0T</u>	<u>C08BL102X1-UN-X0T</u>	<u>C08BL102X-1ZN-X0T</u>	<u>C08BL102X-1SN-X0T</u>	<u>C08BL102X-1UN-X0T</u>
<u>C18BL103X-4UN-X0T</u>				