



DIELECTRIC MATERIAL CODE: AH/CF

Description

Porcelain Capacitors
Low ESR, High -Q
Capacitance Range 0.1 - 1000 pF
Low Noise
High Self-resonance
Established reliability

Functional Applications

Power Amplifiers
DC Blocking
Bypass
Coupling
Tuning
Impedance Matching

0.1 pF Increments

0.1 pF Increments

Part Numbering System

C18AH360G-GUN-X1T



Electrical Specifications

Dissipation Factor	0.05 % @ 1 MHz max.
Dielectric Withstanding Voltage	Please see Chart
Voltage Rating (WVDC)	250% of rated WVDC for 5 sec.
DWV	
Insulation Resistance @ 25 °C	10 ⁶ MΩ min.
@ 125 °C	10 ⁵ MΩ min.
Aging	None
Piezoeffects	None
Capacitance Tolerances	A, B, C, D below 10 pF F, G, J, and K, for 10 pF and above

Voltage

Voltage	Code
50 V	5
100 V	1
150 V	8
200 V	6
250 V	9
300 V	3
500 V	4
1000 V	7
1500 V	A
2000 V	G
2500 V	B
3600 V	D
7200 V	H
SPECIAL	S

Available Termination Types

C17	M, P, Q, R, S, T, U, V, W, Y, Z
C18	U, V, W, Z

Termination System

Termination System	Code
Ag Term, Ni Barrier, Heavy SnPb Plated	T
Ag Term, Ni Barrier, SnPb Plated	U
Ag Term, Ni Barrier, Au Flash	S
Ag Term, Ni Barrier, Sn Plated	Z
AgPd Termination	P
Polymer Term, Ni Barrier, Sn Plated	Q
Polymer Term, Ni Barrier, SnPb Plated	Y
Polymer Term, Cu Barrier, Sn Plated	M
Ag Term, Cu Barrier, Sn Plated	W
Ag Term, Cu Barrier, SnPb Plated	V
Ag Term, Cu Barrier, Heavy SnPb Plated	R

Enhanced Voltage Testing

Rated Voltage	DWV	Life Test Voltage
2000 V rated	2500 V	2000 V
1000 V rated	1500 V	1000 V

Available Lead Types

C17	A, B, C, E, F
C18	A, B, C, E, F

* Special Leading requirements available. Please consult factory

Lead Types

Lead Types	Code
Axial Ribbon	A
Radial Ribbon	B
Center Ribbon	C
Customer Specified	D
Axial Wire	E
Radial Wire	F
None	N

Test Level - All Case Sizes

Standard	X
Reduced Visual	Y
MIL-PRF-55681 Group A	A
MIL-PRF-55681 Group C	C
Customer Specified	D

Available Laser Marking

C17	0, 1, 2, 3, 4, 5
C18	0, 1, 2, 3, 4, 5

Laser

Laser	Code
No Marking	0
Single-sided marked	1
Double-sided marked	2
Large Font, Single-side marked	3
Large Font, Double-side marked	4
Vertical Edge marked	5
Customer Specified	9

Available Packaging

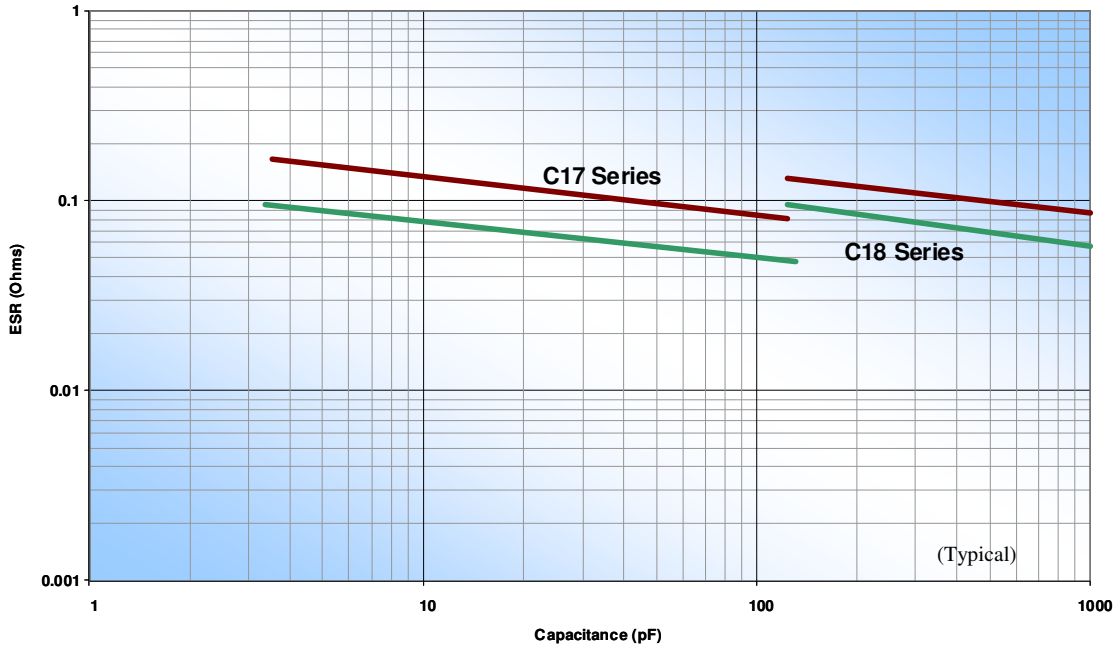
C17	T, V, W, B, S
C18	T, V, W, B, S

Package

Package	Code
Tape & Reel - Horizontal	T
Tape & Reel - Vertical	V
Waffle Pack	W
Bulk	B
Plastic Box	P
Tube (Rail)	R
Customer Specified	S

DIELECTRIC MATERIAL: AH/CF			
CAP CODE	CAP (pF)	Standard C17 .110" x .110"	Enhanced Voltage C18 .110" x .110"
0R1	0.1		
to	to		
1R0	1		
to	to		
2R0	2		
2R1	2.1		
2R2	2.2		
2R4	2.4		
2R7	2.7		
3R0	3.0		
3R3	3.3		
3R6	3.6		
3R9	3.9		
4R3	4.3		
4R7	4.7		
5R1	5.1		
5R6	5.6		
6R2	6.2		
6R8	6.8		
7R5	7.5		
8R2	8.2		
9R1	9.1		
100	10		
110	11		
120	12		
130	13		
150	15		
160	16		
180	18		
200	20		
220	22		
240	24		
270	27		
300	30		
330	33		
360	36		
390	39		
430	43		
470	47		
510	51		
560	56		
620	62		
680	68		
750	75		
820	82		
910	91		
101	100		
111	110		
121	120		
131	130		
151	150		
161	160		
181	180		
201	200		
221	220		
241	240		
271	270		
301	300		
331	330		
361	360		
391	390		
431	430		
471	470		
511	510		
561	560		
621	620		
681	680		
751	750		
821	820		
911	910		
102	1000		

450 MHz ESR vs. Capacitance
DLI C18AH and C17AH Series



Expected Temperature Rise
5 Amps, 450MHz
(infinite heatsink model)

