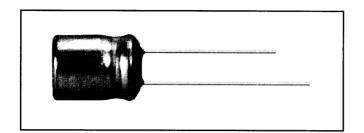


Vishay Sprague

Aluminum Capacitors + 105°C, Miniature, Radial Lead



PERFORMANCE CHARACTERISTICS

Operating Temperature: -55° C to $+105^{\circ}$ C. Capacitance Range: 4.7μ F to 3300μ F. Capacitance Tolerance: -10%, +50%. Voltage Rating: 6.3 WVDC to 250 WVDC. Case Size Range: $.394^{\circ}$ x $.472^{\circ}$ [10.0 x 12.0] to

.709" x 1.575" [18.0 x 40.0].

Termination: 2 and 3 radial leads and axial mount.

Life Validation Test:

4000 hours @ + 105°C (> .394" [10.0] diameter): 3000 hours @ + 105°C (> .394" [10.0] diameter): Δ CAP \leq 20% from individual measurements.

 Δ ESR \leq 1.15 x initial specified limit.

 Δ DCL \leq initial specified limit.

RIPPLE CU	RRENT M	ULTIPLIE	:R\$				
		TEMPERAT	TURE				
	Ambient nperature		Multipli	ers			
+ 105°C + 85°C ≤ + 75°C			0.5 1.0 1.25				
		FREQUENC	Y (Hz)				
WVDC	50 - 60	100 - 120	300 - 400	1k - 19k			
0 - 75 76 - 100 101 - 250	0.60 0.45 0.25	0.70 0.55 0.35	0.75 0.70 0.45	0.80 0.80 0.65			

FEATURES

- Original SMPS output capacitors
- Minimal ESR change
- · High ripple current capability

Shelf Test: 500 hours @ $+ 105^{\circ}$ C: Δ CAP \leq 10% from initial measurement. Δ ESR \leq 1.15 x initial specified limit. Δ DCL \leq 2 x initial specified limit, (6.3 WVDC to 100 WVDC); \leq 3 x initial specified limit (150 WVDC to 250 WVDC).

DC Leakage Current:

6.3 WVDC to 100 WVDC 150 WVDC to 250 WVDC I = 0.03 \sqrt{CV} I = 0.01 WVDC I in μ A, C in μ F, V in Volts.

LOW TEMPERATU	IRE PERF	ORMANCI			
CAPACITANCE	RATIO C - 55	°C/C + 25°C MI	NIMUM @ 12	0Hz	
MAXIMUM	V	oltage/	Mu	Itiplier	
CAPACITANCE CHANGE		V - 100 V V - 250 V	0.75 0.70		
MAXIMUM	1	/oltage	Mu	Multiplier	
IMPEDANCE CHANGE		V - 100 V V - 250 V	2.5 2.0		
ESL (TYF	PICAL VALUE	ES @ 1MHz 1	O 10MHz)		
NOMINAL DIAMETER	.394 [10.0]	.512 [13.0]	.630 [16.0]	.709 [18.0]	
TYPICAL ESL (nH)	4.0	7.0	10.0	12.0	

DIMENSIONS [Numbers in brackets indicate millimeters]										
NOM		IINAL STYLES		2 AND 4	STYLES 3 AND 5		LEAD SPACING		LEAD DIAMETER	
CASE CODE	D	L	D (Max.)	L (Max.)	D (Max.)	L (Max.)	S ± .024 [.60]	T ± .02 [.50]	NOMINAL	AWG NO.
СС	.394 [10.0]	.512 [13.0]	.413 [10.5]	.563 [14.3]	.413 [10.5]	.630 [16.0]	.197 [5.0]	N/A	.025 [0.63]	22
CD	.394 [10.0]	.630 [16.0]	.413 [10.5]	.669 [17.0]	.413 [10.5]	.740 [18.8]	.197 [5.0]	N/A	.025 [0.63]	22
CG	.394 [10.0]	.787 [20.0]	.413 [10.5]	.846 [21.5]	.413 [10.5]	.906 [23.0]	.197 [5.0]	N/A	.025 [0.63]	22
DG	.492 [12.5]	.787 [20.0]	.512 [13.0]	.846 [21.5]	.512 [13.0]	.906 [23.0]	.197 [5.0]	.098 [2.5]	.032 [0.81]	20
DK	.492 [12.5]	.984 [25.0]	.512 [13.0]	1.043 [26.5]	.512 [13.0]	1.142 [29.0]	.197 [5.0]	.098 [2.5]	.032 [0.81]	20
DM	.492 [12.5]	1.043 [26.5]	.512 [13.0]	1.102 [28.0]	.512 [13.0]	1.161 [29.5]	.197 [5.0]	.098 [2.5]	.032 [0.81]	20
DT	.492 [12.5]	1.319 [33.5]	.512 [13.0]	1.346 [34.2]	.512 [13.0]	1.417 [36.0]	.197 [5.0]	.098 [2.5]	.032 [0.81]	20
DS	.492 [12.5]	1.673 [42.5]	.512 [13.0]	1.720 [43.7]	.512 [13.0]	1.791 [45.5]	.197 [5.0]	.098 [2.5]	.032 [0.81]	20
EK	.630 [16.0]	.984 [25.0]	.650 [16.5]	1.031 [26.2]	.650 [16.5]	1.098 [27.9]	.295 [7.5]	.150 [3.8]	.032 [0.81]	20
EN	.630 [16.0]	1.260 [32.0]	.650 [16.5]	1.319 [33.5]	.650 [16.5]	1.417 [36.0]	.295 [7.5]	.150 [3.8]	.032 [0.81]	20
ER	.630 [16.0]	1.417 [36.0]	.650 [16.5]	1.476 [37.5]	.650 [16.5]	1.575 [40.0]	.295 [7.5]	.150 [3.8]	.032 [0.81]	20
EU	.630 [16.0]	1.575 [40.0]	.650 [16.5]	1.642 [41.7]	.650 [16.5]	1.669 [42.4]	.295 [7.5]	.150 [3.8]	.032 [0.81]	20
FR	.709 [18.0]	1.417 [36.0]	.728 [18.5]	1.476 [37.5]	.728 [18.5]	1.575 [40.0]	.295 [7.5]	.150 [3.8]	.032 [0.81]	20
FV	.709 [18.0]	1.575 [40.0]	.728 [18.5]	1.653 [42.0]	.728 [18.5]	1.693 [43.0]	.295 [7.5]	.150 [3.8]	.032 [0.81]	20

Type 672D Vishay Sprague



242401741105		NOMBIAL CASE SEE		. ESR	Max. RIPPLE	Max. IMPEDANO
CAPACITANCE (µF)	PART NUMBER	NOMINAL CASE SIZE D x L	@ + 25 120Hz	5°C (mΩ) 20kHz	@ + 85°C (A) 20kHz - 100kHz	@ + 25°C (mΩ) 100Hz
		6.3 WVDC @ + 105				
150.0	672D157F6R3CD5D	.394 x .630 [10.0 x 1.06]	1.10	0.70	0.50	0.60
220.0	672D227F6R3CG5D	.394 x .787 [10.0 x 20.0]	0.75	0.40	0.70	0.33
1000.0	672D108F6R3EK5D	.630 x .984 [16.0 x 25.0]	0.16	0.09	2.05	0.085
1500.0	672D158F6R3ET5D	.630 x 1.319 [16.0 x 33.5]	0.105	0.06	2.90	0.055
3300.0	672D338F6R3FV5D	.709 x 1.575 [18.0 x 40.0]	0.075	0.045	3.40	0.045
		12 WVDC @ + 105	C, SURGE =	16 V		
100.0	672D107F012CC5D	.394 x .512 [10.0 x 13.0]	1.60	0.90	0.40	0.70
470.0	672D477F012DM5D	.492 x 1.043 [12.5 x 26.5]	0.31	0.16	1.35	0.12
1000.0	672D108F012DS5D	.492 x 1.673 [12.5 x 42.5]	0.15	0.08	2.35	0.06
2200.0	672D228F012FV5D	.709 x 1.575 [18.0 x 40.0]	0.08	0.05	3.30	0.05
		15 WVDC @ + 105°	C. SURGE =	20 V		
100.0	672D107F015CD5D	.394 x .630 [10.0 x 16.0]	1.35	0.70	0.50	0.50
470.0	672D477F015DT5D	.492 x 1.319 [12.5 x 33.5]	0.25	0.12	1.75	0.11
1000.0	672D108F015ET5D	.630 x 1.319 [16.0 x 33.5]	0.12	0.06	2.90	0.055
	0.22.00.0.02.02	20 WVDC @ + 105°			2.00	0.000
100.0	670D107F00000FD				0.70	0.05
100.0	672D107F020CG5D	.394 x .787 [10.0 x 20.0]	1.25	0.40	0.70	0.35
470.0 1500.0	672D477F020EK5D 672D158F020FV5D	.630 x .984 [16.0 x 25.0]	0.24	0.09	2.00	0.085
1500.0	672D136F020FV3D	.709 x 1.575 [18.0 x 40.0]	0.09	0.05	3.25	0.05
		25 WVDC @ + 105°		35 V		
47.0	672D476F025CC5D	.394 x .512 [10.0 x 13.0]	2.35	0.90	0.40	0.85
330.0	672D337F025DT5D	.492 x 1.319 [12.5 x 33.5]	0.29	0.12	1.75	0.10
470.0	672D477F025DS5D	.492 x 1.673 [12.5 x 42.5]	0.22	0.08	2.35	0.07
1200.0	672D128F025FV5D	.709 x 1.575 [18.0 x 40.0]	0.10	0.05	3.20	0.055
		40 WVDC @ + 105°	C, SURGE =	55 V		
220.0	672D227F040EK5D	.630 x .984 [16.0 x 25.0]	0.48	0.14	1.65	0.12
330.0	672D337F040ET5D	.630 x 1.319 [16.0 x 33.5]	0.32	0.12	2.25	0.08
		50 WVDC @ + 105°	C, SURGE =	75 V		
100.0	672D107F050DT5D	.492 x 1.319 [12.5 x 33.5]	0.80	0.26	1.15	0.22
150.0	672D157F050EK5D	.630 x .984 [16.0 x 25.0]	0.55	0.22	1.30	0.18
220.0	672D227F050ET5D	.630 x 1.319 [16.0 x 33.5]	0.40	0.15	1.85	0.12
470.0	672D477F050FV5D	.709 x 1.575 [18.0 x 40.0]	0.25	0.09	2.40	0.095
		60 WVDC @ + 105°	C. SURGE =	85 V		
15.0	672D156F060CD5D	.394 x .512 [10.0 x 13.0]	7.00	2.00	0.28	1.70
22.0	672D226F060CD5D	.394 x .512 [10.0 x 13.0]	4.60	1.20	0.40	1.00
100.0	672D107F060EK5D	.630 x .984 [16.0 x 25.0]	0.90	0.28	1.20	0.24
150.0	672D157F060ET5D	.630 x 1.319 [16.0 x 33.5]	0.60	0.18	1.65	0.15
		75 WVDC @ + 105°				
100	070010050750050				0.00	4.75
12.0	672D126F075CD5D	.394 x .512 [10.0 x 13.0]	8.50	2.20	0.26	1.75
120.0	672D127F075ET5D	.630 x 1.319 [16.0 x 33.5]	0.68	0.18	1.50	0.16
		100 WVDC @ + 105°	C, SURGE =	125 V		
10.0	672D106F100CD5D	.394 x .630 [10.0 x 16.0]	10.00	2.30	0.26	1.80
33.0	672D336F100DM5D	.492 x 1.043 [12.5 x 26.5]	2.55	0.55	0.72	0.39
120.0	672D127F100ET5D	.630 x 1.319 [16.0 x 33.5]	0.68	0.19	1.50	0.17
		200 WVDC @ + 105°	C, SURGE =	250 V		
4.7	672D475F200CG5D	.394 x .787 [10.0 x 20.0]	22.50	1.95	0.31	1.75
15.0	672D156F200DT5D	.492 x 1.319 [12.5 x 33.5]	7.00	0.58	0.76	0.55
47.0	672D476F200FV5D	.709 x 1.575 [18.0 x 40.0]	2.30	0.18	1.90	0.165
		250 WVDC @ + 105°				



Vishay Sprague

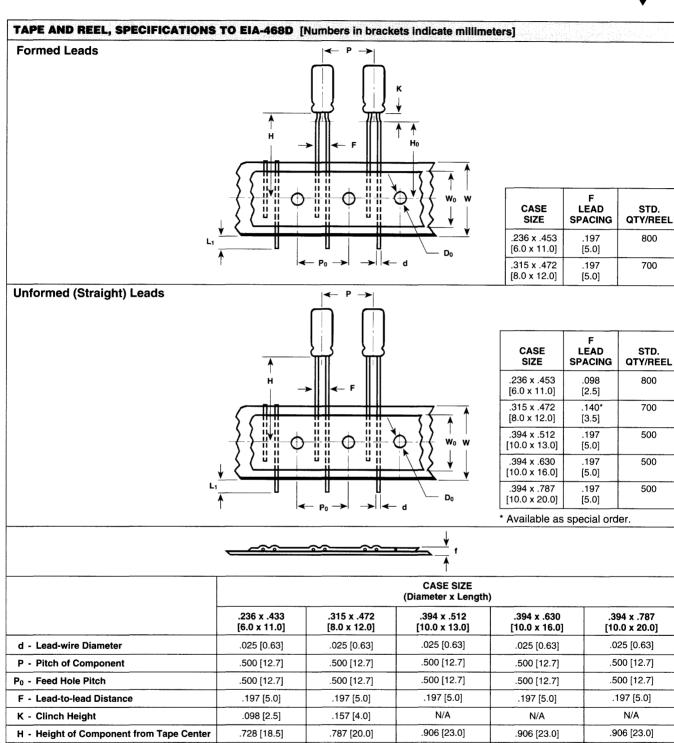
CAPACITANCE (μF)	CASE CODE	PART NUMBER	CAPACITANCE (µF)	CASE CODE	PART NUMBER		
6.3 W	VDC @ + 105°C, SU	RGE = 9 V	7.5 WVDC @ + 105°C, SURGE = 10 V				
150.0	CD	672D157H6R3CD5C	100.0	CC	672D107H7R5CC5		
220.0	CG	672D227H6R3CG5C	150.0	CD	672D157H7R5CD5		
680.0** 1000.0	DM EK	672D687H6R3DM5C 672D108H6R3EK5C	680.0				
1200.0	DS	672D128H6R3DS5C		DT	672D687H7R5DT5		
1500.0	ĒT	672D158H6R3ET5C	1000.0	ET	672D108H7R5ET5		
3300.0	FV	672D338H6R3FV5C	2700.0	FV	672D278H7R5FV5		
12 WV	DC @ + 105°C, SUR	IGE = 16 V	15 WVDC @ + 105°C, SURGE = 20 V				
100.0	CC	672D107H012CC5C	100.0	CD	672D107H015CD5		
150.0	CG	672D157H012CG5C	150.0	CG	672D157H015CG5		
470.0**	DM	672D477H012DM5C	470.0	DT	672D477H015DT50		
680.0	DT	672D687H012DT5C	680.0	EK	672D687H015EK50		
1000.0	DS	672D108H012DS5C	820.0	DS ET	672D827H015DS5		
2200.0	FV	672D228H012FV5C	1000.0** 1800.0	E / FV	672D108H015ET50 672D188H015FV50		
	DC @ + 105°C, SUR			VDC @ + 105°C, SUR			
68.0	CD	672D686H020CD5C	47.0**	CC	672D476H025CC50		
100.0**	CG	672D107H020CG5C	68.0**	CD	672D686H025CD5		
330.0**	DM	672D337H020DM5C		DT			
470.0**	EK	672D477H020EK5C	330.0		672D337H025DT5		
560.0	DS	672D567H020DS5C	470.0**	DS	672D477H025DS5		
680.0	ET	672D687H020ET5C	680.0	EU	672D687H025EU5		
1500.0	FV	672D158H020FV5C	1200.0	FV	672D128H025FV50		
	DC @ + 105°C, SUR		50 WVDC @ + 105°C, SURGE = 75 V				
47.0**	CD	672D476H040CD5C	22.0**	CD	672D226H050CD5		
220.0**	EK	672D227H040EK5C	100.0 150.0	DT EK	672D107H050DT50		
330.0**	ΕT	672D337H040ET5C	180.0	DS EN	672D157H050EK50 672D187H050DS50		
390.0**	DS	672D397H040DS5C	220.0	FT	672D227H050ET50		
820.0	FV	672D827H040FV5C	470.0	DS ET FV	672D477H050FV50		
60 WVDC @ + 105°C, SURGE = 85 V			75 WVDC @ + 105°C, SURGE = 100 V				
15.0	CD	672D156H060CD5C	12.0	CD	672D126H075CD50		
22.0	CG DM	672D226H060CG5C	18.0	CG	672D186H075CG56		
68.0**	DM	672D686H060DM5C					
100.0 120.0	EK DS	672D107H060EK5C 672D127H060DS5C	82.0**	EK	672D826H075EK50		
150.0	ET	672D127H060D35C	120.0	ET	672D127H075ET50		
390.0	FV	672D397H060FV5C	270.0	FV	672D277H075FV50		
100 WV	DC @ + 105°C, SUF	RGE = 125 V	150 WVDC @ + 105°C, SURGE = 200 V				
8.2	CC CD	672D825H100CC5C	6.8	CG	672D685H150CG56		
10.0	CD DM	672D106H100CD5C 672D336H100DM5C	22.0	DT	672D226H150DT50		
33.0 68.0	EK	672D686H100EK5C					
120.0	ET	672D127H100ER5C	39.0	ET	672D396H150ET50		
180.0	FV	672D187H100FV5C	68.0	FV	672D686H150FV50		
200 WVDC @ + 105°C, SURGE = 250 V			250 WVDC @ + 105°C, SURGE = 300 V				
4.7**	CG	672D475H200CG5C	8.2	DM	672D825H250DM56		
15.0	DT	672D156H200DT5C	10.0	DT	672D106H250DT50		
27.0	ET	672D276H200ET5C	22.0	ET	672D226H250ET50		

^{*} Standard Capacitance Tolerance Code H, - 10%, + 100%; Lead Code C, cut leads. C Lead = Negative Lead: .281" [7.1mm], ± .062" [1.6mm]; Positive Lead: .375" [9.5mm], ± .062" [1.6mm]. D Lead = 1.0" [25.4mm] minimum.

** These values are normally stocked. **HOW TO ORDER** F CD 672D 157 6R3 5 D CASE CODE LEAD CODE CAPACITANCE CAPACITANCE DC VOLTAGE RATING **TERMINATION** TYPE **TOLERANCE** This is expressed in F = - 10%, This is expressed in volts. D = Straight leads. See 5 = Polyester picofarads. The first + 50% To complete the three-digit Standard. Dimensions. sleeve with block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 volts). two digits are the resin end seal. significant figures.
The third is the number of zeros to follow.

Vishay Sprague





N/A

.709 [18.0]

.591 [15.0]

.157 [4.0]

.028 [0.7]

.118 [3.0]

N/A

.709 [18.0]

.591 [15.0]

.157 [4.0]

.028 [0.7]

.118 [3.0]

NOTE: Terminal Code "I" = Tape and Reel. Terminal Code "+" = Tape and Ammo. Positive leader is standard. Negative leader is available by special order.

.630 [16.0]

.709 [18.0]

.591 [15.0]

.157 [4.0]

.028 [0.7]

.118 [3.0]

.630 [16.0]

.709 [18.0]

.591 [15.0]

.157 [4.0]

.028 [0.7]

.118 [3.0]

N/A

.709 [18.0]

.591 [15.0]

.157 [4.0]

.028 [0.7]

.118 [3.0]

Ho - Lead-wire Clinch Height

Wo - Hold Down Tape Width

f - Total Tape Thickness

L₁ - Maximum Lead Protrusion

D₀ - Feed Hole Diameter

W - Tape Width

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay:

672D128H6R3DS5C