Vishay Sprague



Aluminum Capacitors +105 °C, Miniature, Radial Lead



QUICK REFERENCE	DATA
DESCRIPTION	VALUE
Nominal case size Ø D x L in inches [mm]	0.394 x 0.472 [10.0 x 12.0] to 0.709 x 1.575 [18.0 x 40.0]
Operating temperature	-55 °C to +105 °C
Rated capacitance range, C_R	4.7 μF to 3300 μF
Tolerance on C _R	-10 %, +50 %
Rated voltage range, U _R	6.3 WV_{DC} to 250 WV_{DC}
Termination	2 and 3 radial leads and axial mount.
Life validation test	$\begin{array}{l} 4000 \text{ h at } +105 \ ^\circ \text{C} \ (\geq 13.0 \ \text{mm dia.}): \\ 3000 \text{ h at } +105 \ ^\circ \text{C} \ (10.0 \ \text{mm dia.}): \\ \Delta \text{CAP} \leq 20 \ \% \ \text{from initial} \\ \text{measurement.} \\ \Delta \text{ESR} \leq 1.15 \ \text{x initial specified limit.} \\ \Delta \text{DCL} \leq \text{initial specified limit.} \end{array}$
Shelf life at 105 °C	$\begin{array}{l} 500 \text{ h: } \Delta CAP \leq 10 \ \% \ from initial \\ measurement. \\ \Delta ESR \leq 1.15 \ x \ initial \ specified \ limit. \\ \Delta DCL \leq 2 \ x \ initial \ specified \ limit, \\ (6.3 \ WV_{DC} \ to \ 100 \ WV_{DC}); \\ \leq 3 \ x \ initial \ specified \ limit, \\ (150 \ WV_{DC} \ to \ 250 \ WV_{DC}). \end{array}$
DC leakage current (after 2 min charge)	$I = 0.03 \ \sqrt{CV}$ (6.3 V _{DC} to 100 V _{DC}) I = 0.01 CV (150 V _{DC} to 250 V _{DC}) I in μ A, C in μ F, V in Volts

FEATURES

- Original SMPS output capacitors
- Minimal ESR change
- High ripple current capability
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

RIPPLE	CURREN		ULTI	PLIERS	
		TEMPE	RATU	RE	
	/IBIENT PERATURE			MULTIPLI	ERS
+	105 °C			0.5	
+	-85 °C			1.0	
≤	+75 °C			1.25	
	F	REQU	ENCY ((Hz)	
WV _{DC}	50 TO 60	100 T	0 120	300 TO 400	1K TO 19K
0 to 75	0.60	0.	70	0.75	0.80
76 to 100	0.40	0.	55	0.70	0.80
101 to 250	0.25	0.3	35	0.45	0.65

LOW TEMPERA	TURE F	PERFOR	MANCE	
CAPACITANCE RAT	IO C ^{-55 °C} /	′ C ^{+25 °C} MI	NIMUM A	T 120 Hz
MAXIMUM	VOL	TAGE	MULT	IPLIER
CAPACITANCE	6.3 V to	o 100 V	0.	75
CHANGE	150 V t	o 250 V	0.	70
MAXIMUM	VOL	TAGE	MULT	IPLIER
IMPEDANCE	6.3 V to	o 100 V	2	.5
CHANGE	150 V t	o 250 V	2	.0
ESL (TYPICAL	VALUES	AT 1 MHz	TO 10 MH	z)
NOMINAL DIAMETER	0.394 [10.0]	0.512 [13.0]	0.630 [16.0]	0.709 [18.0]
TYPICAL ESL (nH)	4.0	7.0	10.0	12.0

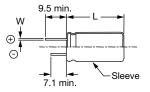


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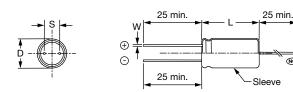
TERMINAL CODE C





NC

TERMINAL CODE J⁽¹⁾



Notes

⊕ Positive terminal

 \odot Negative terminal

® No charge potential

⁽¹⁾ Available for 12.5 mm, 16 mm, and 18 mm diameter units

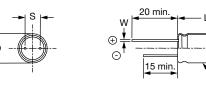
⁽²⁾ Available for 12.5 mm, 16 mm, and 18 mm diameter units with epoxy end-seal

DIME	NSIONS in	inches [mi	illimeters]							
CASE	NOM	IINAL	STYLES	2 AND 4	STYLES	3 AND 5	LEAD S	PACING	LEAD DIA	METER
CODE	D	L	D (max.)	L (max.)	D (max.)	L (max.)	S ± 0.024 [0.60]	T ± 0.020 [0.50]	NOMINAL	AWG
CC	0.394 [10.0]	0.512[13.0]	0.413[10.5]	0.563 [14.3]	0.413[10.5]	0.630 [16.0]	0.197 [5.0]	n/a	0.025 [0.63]	22
CD	0.394 [10.0]	0.630 [16.0]	0.413[10.5]	0.669 [17.0]	0.413[10.5]	0.740 [18.8]	0.197 [5.0]	n/a	0.025 [0.63]	22
CG	0.394 [10.0]	0.787 [20.0]	0.413[10.5]	0.846 [21.5]	0.413[10.5]	0.906 [23.0]	0.197 [5.0]	n/a	0.025 [0.63]	22
DG	0.492 [12.5]	0.787 [20.0]	0.512[13.0]	0.846 [21.5]	0.512 [13.0]	0.906 [23.0]	0.197 [5.0]	0.098 [2.5]	0.032 [0.81]	20
DK	0.492 [12.5]	0.984 [25.0]	0.512[13.0]	1.043 [26.5]	0.512 [13.0]	1.142 [29.0]	0.197 [5.0]	0.098 [2.5]	0.032 [0.81]	20
DM	0.492 [12.5]	1.043 [26.5]	0.512[13.0]	1.102 [28.0]	0.512[13.0]	1.161 [29.5]	0.197 [5.0]	0.098 [2.5]	0.032 [0.81]	20
DT	0.492[12.5]	1.319 [33.5]	0.512[13.0]	1.346 [34.2]	0.512[13.0]	1.417 [36.0]	0.197 [5.0]	0.098 [2.5]	0.032 [0.81]	20
DS	0.492[12.5]	1.673 [42.5]	0.512[13.0]	1.720 [43.7]	0.512[13.0]	1.791 [45.5]	0.197 [5.0]	0.098 [2.5]	0.032 [0.81]	20
EK	0.630 [16.0]	0.984 [25.0]	0.650 [16.5]	1.031 [26.2]	0.650 [16.5]	1.098 [27.9]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20
EN	0.630 [16.0]	1.260 [32.0]	0.650[16.5]	1.319[33.5]	0.650[16.5]	1.417 [36.0]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20
ER	0.630[16.0]	1.417 [36.0]	0.650[16.5]	1.476 [37.5]	0.650 [16.5]	1.575 [40.0]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20
ET	0.630 [16.0]	1.319[33.5]	0.650 [16.5]	1.347 [34.2]	0.650[16.5]	1.417 [36.0]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20
EU	0.630[16.0]	1.575 [40.0]	0.650[16.5]	1.642 [41.7]	0.650 [16.5]	1.669 [42.4]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20
FR	0.709[18.0]	1.417 [36.0]	0.728[18.5]	1.476 [37.5]	0.728 [18.5]	1.575 [40.0]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20
FV	0.709[18.0]	1.575 [40.0]	0.728[18.5]	1.653 [42.0]	0.728 [18.5]	1.693 [43.0]	0.295 [7.5]	0.150 [3.8]	0.032 [0.81]	20

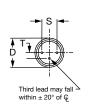
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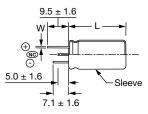
Sleeve

TERMINAL CODE D



TERMINAL CODE O⁽²⁾





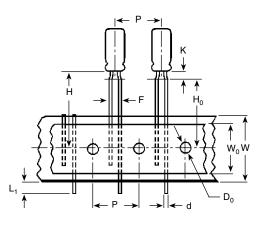
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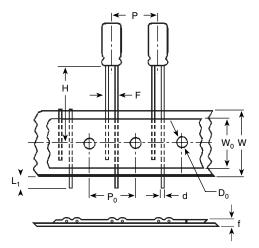
TAPE AND REEL, SPECIFICATIONS TO EIA-468D in inches [millimeters]

Formed Leads



DIMENSIONS in inches [millimeters	s] AND PACKAGING QUANTITIES	
CASE SIZE	F LEAD SPACING	STD. QTY/REEL
0.236 x 0.453 [6.0 x 11.0]	0.197 [5.0]	800
0.315 x 0.472 [8.0 x 12.0]	0.197 [5.0]	700

Unformed (Straight) Leads



DIMENSIONS in inches [millimeter	s] AND PACKAGING QUANTITIES	5
CASE SIZE	F LEAD SPACING	STD. QTY/REEL
0.236 x 0.453 [6.0 x 11.0]	0.098 [2.5]	800
0.315 x 0.472 [8.0 x 12.0]	0.140 [3.5] ⁽¹⁾	700
0.394 x 0.512 [10.0 x 13.0]	0.197 [5.0]	500
0.394 x 0.630 [10.0 x 16.0]	0.197 [5.0]	500
0.394 x 0.787 [10.0 x 20.0]	0.197 [5.0]	500

Note

⁽¹⁾ Available as special order.

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Vishay Sprague

DIMENSIONS in inches [millimeters]

		CASE SI	ZE (DIAMETER x L	.ENGTH)	
ITEM	0.236 x 0.433 [6.0 x 11.0]	0.315 x 0.472 [8.0 x 12.0]	0.394 x 0.512 [10.0 x 13.0]	0.394 x 0.630 [10.0 x 16.0]	0.394 x 0.787 [10.0 x 20.0]
d - Lead-wire diameter	0.025 [0.63]	0.025 [0.63]	0.025 [0.63]	0.025 [0.63]	0.025 [0.63]
P - Pitch of component	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]
P ₀ - Feed hole pitch	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]
F - Lead-to-lead distance	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]
K - Clinch height	0.098 [2.5]	0.157 [4.0]	n/a	n/a	n/a
H - Height of component from tape center	0.728 [18.5]	0.787 [20.0]	0.906 [23.0]	0.906 [23.0]	0.906 [23.0]
H ₀ - Lead-wire clinch height	0.630 [16.0]	0.630 [16.0]	n/a	n/a	n/a
W - Tape width	0.709 [18.0]	0.709 [18.0]	0.709 [18.0]	0.709 [18.0]	0.709 [18.0]
W ₀ - Hold down tape width	0.591 [15.0]	0.591 [15.0]	0.591 [15.0]	0.591 [15.0]	0.591 [15.0]
D ₀ - Feed hole diameter	0.157 [4.0]	0.157 [4.0]	0.157 [4.0]	0.157 [4.0]	0.157 [4.0]
f - Total tape thickness	0.028 [0.7]	0.028 [0.7]	0.028 [0.7]	0.028 [0.7]	0.028 [0.7]
L ₁ - Maximum lead protrusion	0.118 [3.0]	0.118 [3.0]	0.118 [3.0]	0.118 [3.0]	0.118 [3.0]

Note

• Positive leader is standard. Negative leader is available by special order.

ORDERING EXAMPLE

Electrolytic capacitor 672D series: 672D 336 F 100 DM 5 D

DESCRIPTION	
CODE	EXPLANATION
672D	Product type
336	Capacitance value (33 μF)
F	Tolerance (F = -10 % / +50 %)
100	Voltage rating at 105 °C (100 = 100 V)
DM	Can size (see Dimensions table)
5	Sleeve and sealing (5 = polyester sleeve w/epoxy end seal)
D	Terminal code / packaging (D = bulk; straight leads)

Note

• For lead (Pb)-free / RoHS compliant products add suffix "E3" to part number. Example: 672D336F100DM5DE3

CAPACITANCE	PART NUMBER	NOMINAL CASE SIZE		. ESR 5 °C (Ω)	MAX. RIPPLE AT +85 °C (A)	MAX. IMPEDANCE
(μF)	FANTNOMBEN	DxL	120 Hz	20 kHz	20 kHz TO 100 kHz	AT +25 °C (Ω 100 kHz
		6.3 WV _{DC} AT 105	°C, SURGE =	9 V		
150.0	672D157F6RCD5D	0.394 x 0.630 [10.0 x 16.0]	1.10	0.70	0.50	0.60
220.0	672D227F6RCG5D	0.394 x 0.787 [10.0 x 20.0]	0.75	0.40	0.70	0.33
1000.0	672D108F6REK5D	0.630 x 0.984 [16.0 x 25.0]	0.16	0.09	2.05	0.085
1500.0	672D158F6RET5D	0.630 x 1.319 [16.0 x 33.5]	0.105	0.06	2.90	0.055
3300.0	672D338F6RFV5D	0.709 x 1.575 [18.0 x 40.0]	0.075	0.045	3.40	0.045
		12 WV _{DC} AT 105 °	C, SURGE = [·]	16 V		
100.0	672D107F012CC5D	0.394 x 0.512 [10.0 x 13.0]	1.60	0.90	0.40	0.70
470.0	672D477F012DM5D	0.492 x 1.043 [12.5 x 26.5]	0.31	0.16	1.35	0.12
1000.0	672D108F012DS5D	0.492 x 1.673 [12.5 x 42.5]	0.15	0.08	2.35	0.06
2200.0	672D228F012FV5D	0.709 x 1.575[18.0 x 40.0]	0.08	0.05	3.30	0.05
		15 WV _{DC} AT 105 °	C, SURGE = 2	20 V		
100.0	672D107F015CD5D	0.394 x 0.630 [10.0 x 16.0]	1.35	0.70	0.50	0.50
470.0	672D477F015DT5D	0.492 x 1.319 [12.5 x 35.5]	0.25	0.12	1.75	0.11
1000.0	672D108F015ET5D	0.630 x 1.319 [16.0 x 33.5]	0.12	0.06	2.90	0.055
		20 WV _{DC} AT 105 °	C, SURGE = 3	30 V		
100.0	672D107F020CG5D	0.394 x 0.787 [10.0 x 20.0]	1.25	0.40	0.70	0.35
470.0	672D477F020EK5D	0.630 x 0.984 [16.0 x 25.0]	0.24	0.09	2.00	0.085
1000.0	672D158F020FV5D	0.709 x 1.575 [18.0 x 40.0]	0.09	0.05	3.25	0.05

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ELECTRICA	L DATA AND OR	DERING INFORMATI	ON			
CAPACITANCE	PART NUMBER	NOMINAL CASE SIZE		. ESR 5 °C (Ω)	MAX. RIPPLE AT +85 °C (A)	MAX. IMPEDANCE
(μF)		DxL	120 Hz	20 kHz	20 kHz TO 100 kHz	AT +25 °C (Ω) 100 kHz
		25 WV _{DC} AT 105 °	C, SURGE =	35 V		
47.0	672D476F025CC5D	0.394 x 0.512 [10.0 x 13.0]	2.35	0.90	0.40	0.85
330.0	672D337F025DT5D	0.492 x 1.319 [12.5 x 33.5]	0.29	0.12	1.75	0.10
470.0	672D477F025DS5D	0.492 x 1.673 [12.5 x 42.5]	0.22	0.08	2.35	0.07
1200.0	672D128F025FV5D	0.709 x 1.575 [18.0 x 40.0]	0.10	0.05	3.20	0.055
		40 WV _{DC} AT 105 °	C, SURGE =	55 V		
220.0	672D227F040EK5D	0.630 x 0.984 [16.0 x 25.0]	0.48	0.14	1.65	0.12
330.0	672D337F040ET5D	0.630 x 1.319 [16.0 x 33.5]	0.32	0.12	2.25	0.08
		50 WV _{DC} AT 105 °	C, SURGE =	75 V		
100.0	672D107F050DT5D	0.492 x 1.319 [12.5 x 33.5]	0.80	0.26	1.15	0.22
150.0	672D157F050EK5D	0.630 x 0.984[16.0 x 25.0]	0.55	0.22	1.30	0.18
220.0	672D227F050ET5D	0.630 x 1.319 [16.0 x 33.5]	0.40	0.15	1.85	0.12
470.0	672D477F050FV5D	0.709 x 1.575 [18.0 x 40.0]	0.25	0.09	2.40	0.095
		60 WV _{DC} AT 105 °	C, SURGE =	85 V		
15.0	672D156F060CD5D	0.394 x 0.512 [10.0 x 13.0]	7.00	2.00	0.28	1.70
22.0	672D226F060CG5D	0.394 x 0.787 [10.0 x 20.0]	4.60	1.20	0.40	1.00
100.0	672D107F060EK5D	0.630 x 0.984 [16.0 x 25.0]	0.90	0.28	1.20	0.24
150.0	672D157F060ET5D	0.630 x 1.319 [16.0 x 33.5]	0.60	0.18	1.65	0.15
		75 WV _{DC} AT 105 °C	C, SURGE = 1	00 V		
12.0	672D126F075CD5D	0.394 x 0.512 [10.0 x 13.0]	8.50	2.20	0.26	1.75
120.0	672D127F075ET5D	0.630 x 1.319 [16.0 x 33.5]	0.68	0.18	1.50	0.16
		100 WV _{DC} AT 105 °	C, SURGE =	125 V		
10.0	672D106F100CD5D	0.394 x 0.630 [10.0 x 16.0]	10.00	2.30	0.26	1.80
33.0	672D336F100DM5D	0.492 x 1.043 [12.5 x 26.5]	2.55	0.55	0.72	0.39
120.0	672D127F100ET5D	0.630 x 1.319 [16.0 x 33.5]	0.68	0.19	1.50	0.17
		200 WV _{DC} AT 105 °	C, SURGE =	250 V		
4.7	672D475F200CG5D	0.394 x 0.787 [10.0 x 20.0]	22.50	1.95	0.31	1.75
15.0	672D156F200DT5D	0.492 x 1.319 [12.5 x 33.5]	7.00	0.58	0.76	0.55
47.0	672D476F200FV5D	0.709 x 1.575 [18.0 x 40.0]	2.30	0.18	1.90	0.165
		250 WV _{DC} AT 105 °	C, SURGE =	300 V		
10.0	672D106F250DT5D	0.492 x 1.319 [12.5 x 33.5]	12.00	1.50	0.48	1.60

CAPACITANCE (µF)	CASE CODE	PART NUMBER
	6.3 WV _{DC} AT 105 °C, SURGE = 9 V	
150.0	CD	672D157H6R3CD5C
220.0	CG	672D227H6R3CG5C
680.0	DM	672D687H6R3DM5C
1000.0	EK	672D108H6R3EK5C
1200.0	DS	672D158H6R3ET5C
3300.0	FV	672D338H6R3FV5C
	7.5 WV _{DC} AT 105 °C, SURGE = 10 V	
100.0	CC	672D107H7R5CC5C
150.0	CD	672D157H7R5CD5C
680.0	DT	672D687H7R5DT5C
1000.0	ET	672D108H7R5ET5C
2700.0	FV	672D278H7R5FV5C

Note

Capacitance tolerance code H, -10 %, +100 %; lead code C, cut leads. C lead = negative lead: 0.281" [7.1 mm], $\pm 0.062"$ [1.6 mm]; positive lead: 0.375" [9.5 mm], $\pm 0.062"$ [1.6 mm]. D lead = 1.0" [25.4 mm] minimum. ٠

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PART NUMBER

vishay.co

CAPACITANCE (µF)

100.0 150.0 470.0 680.0 1000.0 2200.0

100.0 150.0 470.0 680.0 820.0 1000.0 1800.0

68.0 100.0 330.0 470.0 560.0 680.0 1500.0

47.0 68.0 330.0

ELECTRICAL DATA AND ORDERING INFORMATION - Original ratings

· (P··· /		
	12 WV _{DC} AT 105 °C, SURGE = 16 V	
	CC	672D107H012CC5C
	CG	672D157H012CG5C
	DM	672D477H012DM5C
	DT	672D687H012DT5C
	DS	672D108H012DS5C
	FV	672D228H012FV5C
	15 WV _{DC} AT 105 °C, SURGE = 20 V	
	CD	672D107H015CD5C
	CG	672D157H015CG5C
	DT	672D477H015DT5C
	EK	672D687H015EK5C
	DS	672D827H015DS5C
	ET	672D108H015ET5C
	FV	672D188H015FV5C
	20 WV _{DC} AT 105 °C, SURGE = 30 V	
	CD	672D868H020CD5C
	CG	672D107H020CG5C
	DM	672D337H020DM5C
	EK	672D477H020EK5C
	DS	672D567H020DS5C
	ET	672D687H020ET5C
	FV	672D158H020FV5C
	25 WV _{DC} AT 105 °C, SURGE = 35 V	
	CC	672D476H025CC5C
	CD	672D686H025CD5C
	DT	672D337H025DT5C
	DS	672D477H025DS5C

CASE CODE

470.0	DS	672D477H025DS5C
680.0	EU	672D687H025EU5C
1200.0	FV	672D128H025FV5C
	40 WV _{DC} AT 105 °C, SURGE = 55 V	
47.0	CD	672D476H040CD5C
220.0	EK	672D227H040EK5C
330.0	ET	672D337H040ET5C
390.0	DS	672D397H040DS5C
820.0	FV	672D827H040FV5C
	50 WV _{DC} AT 105 °C, SURGE = 75 V	
22.0	CD	672D226H050CD5C
100.0	DT	672D107H050DT5C
150.0	EK	672D157H050EK5C
180.0	DS	672D187H050DS5C
220.0	ET	672D227H050ET5C
470.0	EV/	672D477U050EV/5C

470.0	FV	672D477H050FV5C		
60 WV _{DC} AT 105 °C, SURGE = 85 V				
15.0	CD	672D156H060CD5C		
22.0	CG	672D226H060CG5C		
68.0	DM	672D686H060DM5C		
100.0	EK	672D107H060EK5C		
120.0	DS	672D127H060DS5C		
150.0	ET	672D157H060ET5C		
390.0	FV	672D397H060FV5C		

Note

Capacitance tolerance code H, -10 %, +100 %; lead code C, cut leads. C lead = negative lead: 0.281" [7.1 mm], ± 0.062" [1.6 mm]; positive lead: 0375" [9.5 mm], ± 0.062" [1.6 mm]. D lead = 1.0" [25.4 mm] minimum.

Revision:	18-Jul-16
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Statements about product lifetime are based on calculations and internal testing. They should only be interpreted as estimations. Also due to external factors, the lifetime in the field application may deviate from the calculated lifetime. In general, nothing stated herein shall be construed as a guarantee of durability.

For technical questions, contact: <u>aluminumcaps4@vishay.com</u>
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Vishay Sprague

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ELECTRICAL DATA AND ORDER	ING INFORMATION - Original ratir	igs
CAPACITANCE (µF)	CASE CODE	PART NUMBER
·	75 WV _{DC} AT 105 °C, SURGE = 100 V	-
12.0	CD	672D126H075CD5C
18.0	CG	672D186H075CG5C
82.0	EK	672D826H075EK5C
120.0	ET	672D127H075ET5C
270.0	FV	672D277H075FV5C
· · · ·	100 WV _{DC} AT 105 °C, SURGE = 125 V	
8.2	CC	672D825H100CC5C
10.0	CD	672D106H100CD5C
33.0	DM	672D336H100DM5C
68.0	EK	672D686H100EK5C
120.0	ET	672D127H100ET5C
180.0	FV	672D187H100FV5C
·	150 WV _{DC} AT 105 °C, SURGE = 200 V	
6.8	CG	672D685H150CG5C
22.0	DT	672D226H150DT5C
39.0	ET	672D396H150ET5C
68.0	FV	672D686H150FV5C
·	200 WV _{DC} AT 105 °C, SURGE = 250 V	
4.7	CG	672D475H200CG5C
15.0	DT	672D156H200DT5C
27.0	ET	672D276H200ET5C
47.0	FV	672D476H200FV5C
	250 WV _{DC} AT 105 °C, SURGE = 300 V	
8.2	DM	672D825H250DM5C
10.0	DT	672D106H250DT5C
22.0	ET	672D226H250ET5C
39.0	FV	672D396H250FV5C

Note

Capacitance tolerance code H, -10 %, +100 %; lead code C, cut leads. C lead = negative lead: 0.281" [7.1 mm], ± 0.062" [1.6 mm]; positive lead: 0375" [9.5 mm], ± 0.062" [1.6 mm]. D lead = 1.0" [25.4 mm] minimum.



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