

TYPE 269

Epoxy resin molding chip
Built-in fuse

⚠ CAUTIONS

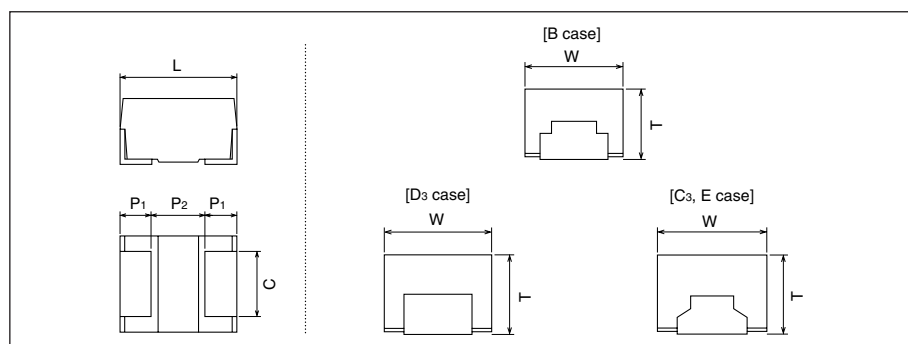
- This capacitor is polarized, do not apply reverse voltage.
- The sum of peak value of AC and DC voltage should not exceed the rated voltage.
- Information in this catalog is subject to change without prior notice. Please inquire of us to confirm specifications prior to use.

CHARACTERISTICS

ITEM	CHARACTERISTICS
Failure rate level	1%/1000h
Category temperature range	-55~+125°C (+85~+125°C : Voltage derating is required.)
Rated voltage	6.3-10-16-20-25-35-50VDC
Capacitance range	0.15~150 μF
Capacitance tolerance	±10%, ±20%

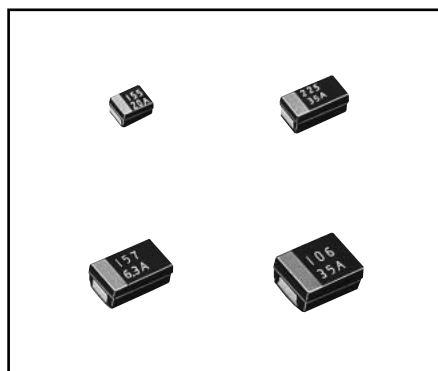
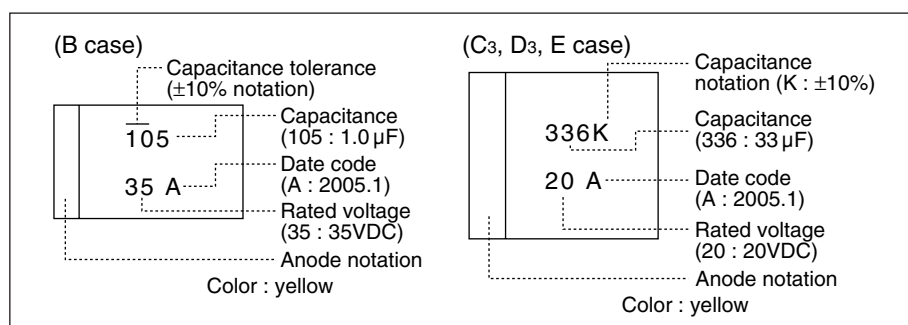
DIMENSIONS

mm



Case Code	EIA Code	L±0.2	W±0.2	T±0.2	P1±0.2	P2 min.	C±0.1
B	3528	3.5	2.8	1.9	0.8	1.5	2.2
C ₃	6032	6.0	3.2	2.5	1.3	3.0	2.2
D ₃	7343	7.3	4.4	2.8	1.3	4.0	2.4
E	7257	7.3	5.8	3.5	1.3	4.0	3.5

MARKING



Type 269 is built-in fuse chip tantalum capacitors based on Type 267.

FEATURES

1. With built-in fuse that blows out to prevent smoking and ignition of capacitor when overcurrent flows.
2. Suitable for filtering of supply with low impedance circuit and by-passing of random noise of source line in ultra high speed logical circuit.
3. Suitable for surface mounting.
4. Dimensional accuracy and symmetrical terminal structure suitable for high-density mounting ensures excellent "Self-Alignment".
5. Meet the demand for resistance to soldering heat by 260°C for 10 seconds dipping. Also, meet reflow and flow soldering.

NOTIFICATIONS FOR USE

Prior to use, please refer to Application Notes (G-000-001G-Ta01) for Tantalum Solid Electrolytic Capacitors.



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STANDARD RATINGS

R.V.(VDC) Cap.(μF)	6.3	10	16	20	25	35	50
0.15							B
0.22							B
0.33							B
0.47							*B, C ₃
0.68							C ₃
1.0					B	B, C ₃	C ₃
1.5				B	B	C ₃	*C ₃ , D ₃
2.2			B	B		C ₃	D ₃
3.3			B	*B	C ₃	C ₃ , D ₃	*D ₃
4.7		B	*B	C ₃	C ₃	D ₃	
6.8		*B	C ₃	C ₃	D ₃	D ₃ , E	
10	*B	*B, C ₃	*B, C ₃	*C ₃ , D ₃	D ₃	E	
15		C ₃	*B, D ₃	*C ₃ , D ₃	*C ₃ , E	E	
22		D ₃	*C ₃ , D ₃	*D ₃ , E	E		
33		*C ₃ , D ₃	*D ₃ , E	E			
47	*C ₃	*B, *D ₃	*D ₃ , E				
68	*D ₃	*D ₃ , E	*E				
100	*D ₃ , E	*D ₃ , *E					
150	*D ₃						

* 269E Series.

RATINGS AND CATALOG NUMBERS

	Catalog number ⁽¹⁾⁽²⁾	cap. (μF)	case code	Max DC Lct. (μA)			Max Dissipation factor			Max ESR(Ω) 10kHz	
				20°C	85°C	125°C	-55°C	20°C	85°C		125°C
Rated voltage 6.3VDC/Surge voltage 8VDC	269E 6301 106 □ ¹ □ ²	10	B	0.6	6	7.9	0.08	0.06	0.06	0.08	3.0
	269E 6301 476 □ ¹ □ ² 720	47	C ₃	3.0	30	37	0.08	0.06	0.06	0.08	1.2
	269E 6301 686 □ ¹ □ ² 720	68	D ₃	4.3	43	54	0.08	0.06	0.06	0.08	1.0
	269E 6301 107 □ ¹ □ ² 720	100	D ₃	6.3	63	79	0.15	0.08	0.08	0.10	1.0
	269M 6301 107 □ ¹ □ ² 720	100	E	6.3	63	79	0.10	0.08	0.08	0.08	0.7
Rated voltage 10VDC/Surge voltage 13VDC	269E 6301 157 □ ¹ □ ² 734	150	D ₃	9.5	95	118	0.15	0.08	0.08	0.10	1.0
	269M 1002 475 □ ¹ □ ²	4.7	B	0.5	5	6.3	0.08	0.06	0.06	0.06	3.0
	269E 1002 685 □ ¹ □ ²	6.8	B	0.7	7	8.5	0.08	0.06	0.06	0.08	3.0
	269E 1002 106 □ ¹ □ ²	10	B	1.0	10	13	0.08	0.06	0.06	0.08	3.0
	269M 1002 106 □ ¹ □ ² 720	10	C ₃	1.0	10	13	0.08	0.06	0.06	0.06	1.2
	269M 1002 156 □ ¹ □ ² 720	15	C ₃	1.5	15	19	0.08	0.06	0.06	0.06	1.2
	269M 1002 226 □ ¹ □ ² 720	22	D ₃	2.2	22	28	0.08	0.06	0.06	0.06	1.0
	269E 1002 336 □ ¹ □ ² 720	33	C ₃	3.3	33	41	0.08	0.06	0.06	0.08	1.2
	269M 1002 336 □ ¹ □ ² 720	33	D ₃	3.3	33	41	0.08	0.06	0.06	0.06	1.0
	269E 1002 476 □ ¹ □ ²	47	B	4.7	47	59	0.18	0.12	0.12	0.14	3.0
	269E 1002 476 □ ¹ □ ² 720	47	D ₃	4.7	47	59	0.08	0.06	0.06	0.08	1.0
	269E 1002 686 □ ¹ □ ² 720	68	D ₃	6.8	68	85	0.08	0.06	0.06	0.08	1.0
	269M 1002 686 □ ¹ □ ² 720	68	E	6.7	67	85	0.08	0.06	0.06	0.06	0.7
	269E 1002 107 □ ¹ □ ² 734	100	D ₃	10	100	130	0.15	0.08	0.08	0.10	1.0
269E 1002 107 M □ ² 720	100	E	10	100	125	0.10	0.08	0.08	0.08	0.7	
Rated voltage 16VDC/Surge voltage 20VDC	269M 1602 225 □ ¹ □ ²	2.2	B	0.5	5	6.3	0.08	0.06	0.06	0.06	3.0
	269M 1602 335 □ ¹ □ ²	3.3	B	0.5	5	6.3	0.08	0.06	0.06	0.06	3.0
	269E 1602 475 □ ¹ □ ²	4.7	B	0.8	8	9.4	0.08	0.06	0.06	0.08	3.0
	269M 1602 685 □ ¹ □ ² 720	6.8	C ₃	1.1	11	14	0.08	0.06	0.06	0.06	1.2
	269E 1602 106 □ ¹ □ ²	10	B	1.6	16	20	0.08	0.06	0.06	0.08	3.0
	269M 1602 106 □ ¹ □ ² 720	10	C ₃	1.6	16	20	0.08	0.06	0.06	0.06	1.2
	269E 1602 156 □ ¹ □ ²	15	B	2.4	24	30	0.12	0.08	0.08	0.10	3.0
	269M 1602 156 □ ¹ □ ² 720	15	D ₃	2.4	24	30	0.08	0.06	0.06	0.06	1.0
	269E 1602 226 □ ¹ □ ² 720	22	C ₃	3.5	35	44	0.08	0.06	0.06	0.08	1.2
	269M 1602 226 □ ¹ □ ² 720	22	D ₃	3.5	35	44	0.08	0.06	0.06	0.06	1.0
	269E 1602 336 □ ¹ □ ² 720	33	D ₃	5.3	53	66	0.08	0.06	0.06	0.08	1.0
	269M 1602 336 □ ¹ □ ² 720	33	E	5.3	53	66	0.08	0.06	0.06	0.06	0.7
	269E 1602 476 □ ¹ □ ² 720	47	D ₃	7.5	75	94	0.08	0.06	0.06	0.08	1.0
	269M 1602 476 □ ¹ □ ² 720	47	E	7.5	75	94	0.08	0.06	0.06	0.06	0.7
	269E 1602 686 □ ¹ □ ² 720	68	E	11	109	136	0.10	0.08	0.08	0.08	0.7

□¹ capacitance tolerance code "K" (±10%) or "M" (±20%)□² taping code "R" ("N") or "L" ("P")

Pull direction "R" ("N") is standard.





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RATINGS AND CATALOG NUMBERS

	Catalog number ⁽¹⁾⁽²⁾	cap. (μ F)	case code	Max DC Lct. (μ A)			Max Dissipation factor				Max ESR(Ω) 10kHz	
				20°C	85°C	125°C	-55°C	20°C	85°C	125°C		
Rated voltage 20VDC/Surge voltage 26VDC	269M 2002 155 □ ¹ □ ²	1.5	B	0.5	5	6.3	0.08	0.06	0.06	0.06	3.0	
	269M 2002 225 □ ¹ □ ²	2.2	B	0.5	5	6.3	0.08	0.06	0.06	0.06	3.0	
	269E 2002 335 □ ¹ □ ²	3.3	B	0.7	7	8.3	0.08	0.06	0.06	0.08	3.0	
	269M 2002 475 □ ¹ □ ² 720	4.7	C ₃	0.9	9	12	0.08	0.06	0.06	0.06	1.2	
	269M 2002 685 □ ¹ □ ² 720	6.8	C ₃	1.4	14	17	0.08	0.06	0.06	0.06	1.2	
	269E 2002 106 □ ¹ □ ² 720	10	C ₃	2.0	20	25	0.08	0.06	0.06	0.08	1.2	
	269M 2002 106 □ ¹ □ ² 720	10	D ₃	2.0	20	25	0.08	0.06	0.06	0.06	1.0	
	269E 2002 156 □ ¹ □ ² 720	15	C ₃	3.0	30	38	0.08	0.06	0.06	0.08	1.2	
	269M 2002 156 □ ¹ □ ² 720	15	D ₃	3.0	30	38	0.08	0.06	0.06	0.08	1.5	
	269E 2002 226 □ ¹ □ ² 720	22	D ₃	4.4	44	55	0.08	0.06	0.06	0.08	1.0	
	269M 2002 226 □ ¹ □ ² 720	22	E	4.4	44	55	0.08	0.06	0.06	0.06	0.7	
	269M 2002 336 □ ¹ □ ² 720	33	E	6.6	66	83	0.08	0.06	0.06	0.06	1.0	
	Rated voltage 25VDC/Surge voltage 32VDC	269M 2502 105 □ ¹ □ ²	1.0	B	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0
269M 2502 155 □ ¹ □ ²		1.5	B	0.5	5	6.3	0.08	0.06	0.06	0.06	3.0	
269M 2502 335 □ ¹ □ ² 720		3.3	C ₃	0.8	8	9.6	0.08	0.06	0.06	0.06	1.2	
269M 2502 475 □ ¹ □ ² 720		4.7	C ₃	1.2	12	15	0.08	0.06	0.06	0.06	1.2	
269M 2502 685 □ ¹ □ ² 720		6.8	D ₃	1.7	17	21	0.08	0.06	0.06	0.06	1.0	
269M 2502 106 □ ¹ □ ² 720		10	D ₃	2.5	25	31	0.08	0.06	0.06	0.08	1.5	
269E 2502 156 □ ¹ □ ² 734		15	C ₃	3.8	38	47	0.10	0.08	0.08	0.10	1.4	
269M 2502 156 □ ¹ □ ² 720		15	E	3.8	38	47	0.08	0.06	0.06	0.06	0.7	
269M 2502 226 □ ¹ □ ² 720		22	E	5.5	55	69	0.08	0.06	0.06	0.06	1.0	
Rated voltage 35VDC/Surge voltage 44VDC	269M 3502 105 □ ¹ □ ²	1.0	B	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0	
	269M 3502 105 □ ¹ □ ² 720	1.0	C ₃	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0	
	269M 3502 155 □ ¹ □ ² 720	1.5	C ₃	0.5	5	6.6	0.08	0.06	0.06	0.06	1.2	
	269M 3502 225 □ ¹ □ ² 720	2.2	C ₃	0.8	8	9.6	0.08	0.06	0.06	0.06	1.2	
	269M 3502 335 □ ¹ □ ² 734	3.3	C ₃	1.2	12	14	0.08	0.06	0.06	0.06	1.2	
	269M 3502 335 □ ¹ □ ² 720	3.3	D ₃	1.2	12	14	0.08	0.06	0.06	0.06	1.0	
	269M 3502 475 □ ¹ □ ² 720	4.7	D ₃	1.6	16	21	0.08	0.06	0.06	0.06	1.0	
	269M 3502 685 □ ¹ □ ² 734	6.8	D ₃	2.4	24	30	0.08	0.06	0.06	0.08	1.5	
	269M 3502 685 □ ¹ □ ² 720	6.8	E	2.4	24	30	0.08	0.06	0.06	0.06	0.7	
	269M 3502 106 □ ¹ □ ² 720	10	E	3.5	35	44	0.08	0.06	0.06	0.06	0.7	
	269M 3502 156 □ ¹ □ ² 720	15	E	5.3	53	66	0.08	0.06	0.06	0.06	1.0	
	Rated voltage 50VDC/Surge voltage 63VDC	269M 5002 154 □ ¹ □ ²	0.15	B	0.5	5	6.3	0.05	0.04	0.04	0.05	5.0
		269M 5002 224 □ ¹ □ ²	0.22	B	0.5	5	6.3	0.05	0.04	0.04	0.05	5.0
269M 5002 334 □ ¹ □ ²		0.33	B	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0	
269E 5002 474 □ ¹ □ ²		0.47	B	0.5	5	6.3	0.06	0.04	0.04	0.06	3.0	
269M 5002 474 □ ¹ □ ² 720		0.47	C ₃	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0	
269M 5002 684 □ ¹ □ ² 720		0.68	C ₃	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0	
269M 5002 105 □ ¹ □ ² 720		1.0	C ₃	0.5	5	6.3	0.05	0.04	0.04	0.05	3.0	
269E 5002 155 □ ¹ □ ² 720		1.5	C ₃	0.8	8	9.4	0.08	0.06	0.06	0.08	1.2	
269M 5002 155 □ ¹ □ ² 720		1.5	D ₃	0.8	8	9.4	0.08	0.06	0.06	0.06	1.5	
269M 5002 225 □ ¹ □ ² 720		2.2	D ₃	1.1	11	14	0.08	0.06	0.06	0.06	1.5	
269E 5002 335 □ ¹ □ ² 720		3.3	D ₃	1.7	17	21	0.08	0.06	0.06	0.08	1.0	

□¹ capacitance tolerance code "K" (\pm 10%) or "M" (\pm 20%)□² taping code "R" ("N") or "L" ("P")

Pull direction "R" ("N") is standard.



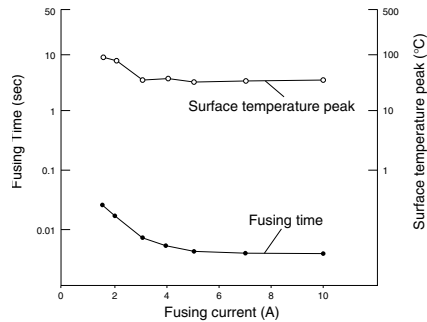
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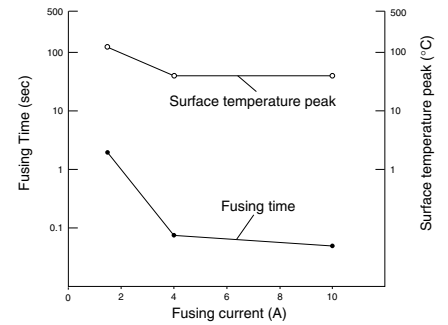
Fusing characteristics

Fusing characteristics showed on the drawing is one of examples. They vary according to conditions. Please inquire of our Sales Department about details.

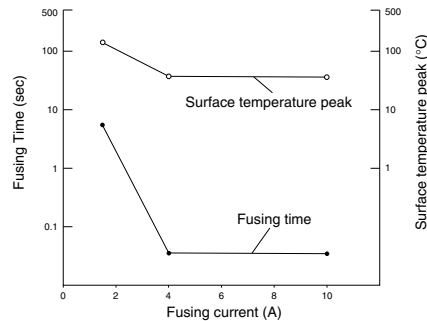
(Case code B) 16V 3.3 μ F



(Case code C₃) 16V 10 μ F



(Case code D₃) 16V 22 μ F



(Case code E) 10V 68 μ F

