

FEATURES

- Long life, 105°C, 4,000 ~ 10,000 hours assured
- Low Impedance, suitable for switching power supplies
- Smaller size with large permissible ripple current

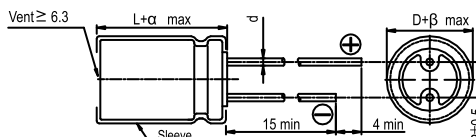
SPECIFICATIONS

Items	Performance										
Life	at 105 °C 4,000 ~ 10,000 Hours										
Operating Temp.	-55 °C ~ +105 °C										
Capacitance Tolerance	±20% (at 120Hz, 20 °C)										
Leakage Current (at 20 °C)	I = - 0.1CV or 3 (μA) whichever is greater (after 2 minutes) Where C = rated capacitance in μF. V = rated DC working voltage in V.										
Dissipation Factor (Tan φ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50	63			
	Tan φ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09			
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.										
	Rated Voltage				6	10	16	25	35	50	63
	Impedance Ratio	Z (-25°C) / Z (+20 °C)				3	3	3	3	3	3
Load Life Test	Test Time	6.3 ~ 10V	4,000 Hrs for D = 5 ~ 6.3mm								
			6,000 Hrs for D = 8 ~ 10mm								
			8,000 Hrs for D ≥ 12.5mm								
		16 ~ 63V	5,000 Hrs for D = 5 ~ 6.3mm								
			7,000 Hrs for D = 8 ~ 10mm								
			10,000 Hrs for D ≥ 12.5mm								
	Capacitance Change		Within ±25% of initial value								
	Dissipation Factor		Less than 200% of specified value								
	Leakage Current		Within specified value								
	* The above specifications shall be satisfied when the capacitors are restored to 20 °C after the rated voltage applied with rated ripple current for 4,000 ~ 10,000hrs at 105 °C.										
Shelf Life Test	Test Time		1,000 hours								
	Capacitance Change		Within ±25% of initial value								
	Dissipation Factor		Less than 200% of specified value								
	Leakage Current		Within specified value								
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 105 °C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements. (Refer to JIS C 5101-4 4.1).										
Ripple Current & Frequency Multipliers	Freq. (Hz) Cap. (μF)		120	1k	10k	100k up					
			under ~ 33	0.42	0.70	0.90					1.0
	39 ~ 270	0.50	0.73	0.92	1.0						
	330 ~ 680	0.55	0.77	0.94	1.0						
	820 ~ 1,800	0.60	0.80	0.96	1.0						
	2,200 ~ 18,000	0.70	0.85	0.98	1.0						
	Other Standards	JIS C 5101-4									

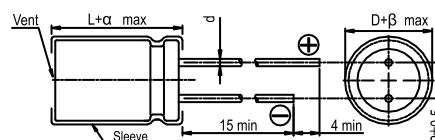
DIMENSIONS

Unit: mm

D	5	6.3	8	10	12.5	16	18			
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5			
d	0.5		0.6		0.8					
α	1.0		L < 20: 1.5, L ≥ 20: 2.0							
β	0.5									



The case size of 12.5×16, 16×16, 16×20, 18×16, 18×20 and 18×25 are suitable for below diagram:



DIMENSIONS & PERMISSIBLE RIPPLE CURRENT AND MAX IMPEDANCE

Dimension: D x L(mm)
Ripple Current: mA/rms at 100Hz, 105°C

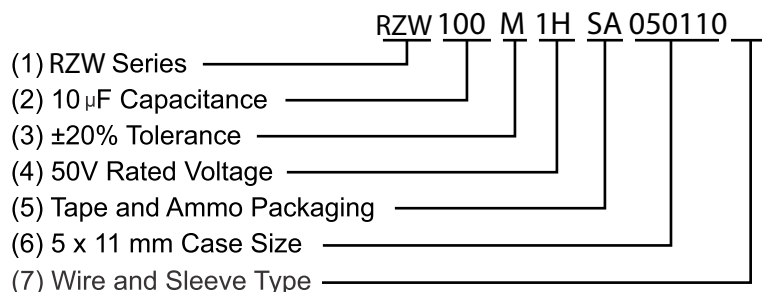
V. DC Code		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)		
		D x L	Impedance (Ω, Max / 100kHz)		D x L	Impedance (Ω, Max / 100kHz)		D x L	Impedance (Ω, Max / 100kHz)		D x L	Impedance (Ω, Max / 100kHz)	
			20°C	-10°C		20°C	-10°C		20°C	-10°C		20°C	-10°C
μ F				100k Hz			100k Hz			100k Hz			100k Hz
47	470										5 x 11	0.58	1.16
56	560												
100	101				5 x 11	0.58	1.16	210			6.3 x 11	0.22	0.44
120	121								6.3 x 11	0.22	0.44	340	
150	151	5 x 11	0.58	1.16	210								
220	221				6.3 x 11	0.22	0.44	340			8 x 11.5	0.11	0.22
330	331	6.3 x 11	0.22	0.44	340				8 x 11.5	0.11	0.22	640	8 x 15 10 x 13
470	471				8 x 11.5	0.11	0.22	640	8 x 15 10 x 12.5	0.083 0.080	0.166 0.16	840 865	8 x 20 10 x 16
680	681	8 x 11.5	0.11	0.22	640	8 x 15 10 x 12.5	0.083 0.080	0.166 0.160	840 865	8 x 20 10 x 16	0.064 0.060	0.128 0.120	1,050 1,210
820	821	10 x 12.5	0.080	0.16	865								10 x 20 10 x 30
1,000	102	8 x 15	0.087	0.174	840	8 x 20 10 x 16	0.064 0.060	0.128 0.120	1,050 1,210	10 x 20 12.5 x 16	0.046 0.049	0.092 0.098	1,400 1,450
1,200	122	8 x 20 10 x 16	0.069 0.060	0.128 0.120	1,050 1,210	10 x 20	0.046	0.092	1,400	10 x 25	0.042	0.084	1,650
1,500	152	10 x 20	0.046	0.092	1,400	10 x 25 12.5 x 16	0.042 0.049	0.084 0.090	1,650 1,450	10 x 30 12.5 x 20 16 x 16	0.031 0.035 0.042	0.062 0.070 0.084	1,910 1,900 1,940
1,800	182	12.5 x 16	0.045	0.090	1,450								12.5 x 30 16 x 20
2,200	222	10 x 25	0.042	0.084	1,650	10 x 30 12.5 x 20 16 x 16	0.031 0.035 0.042	0.062 0.070 0.084	1,910 1,900 1,940	12.5 x 25 18 x 16	0.027 0.043	0.054 0.086	2,230 2,210
2,700	272	10 x 30 16 x 16	0.031 0.042	0.062 0.084	1,910 1,940	18 x 16	0.043	0.086	2,210	12.5 x 30 16 x 20	0.024 0.027	0.048 0.054	2,650 2,530
3,300	332	12.5 x 20	0.035	0.070	1,900	12.5 x 25	0.027	0.054	2,230	12.5 x 35	0.020	0.040	2,880
3,900	392	12.5 x 25 18 x 16	0.027 0.043	0.054 0.086	2,230 2,210	12.5 x 30 16 x 20	0.024 0.027	0.048 0.054	2,650 2,530	12.5 x 40 16 x 25 18 x 20	0.017 0.021 0.026	0.034 0.042 0.052	2,860
4,700	472	12.5 x 30	0.024	0.048	2,650	12.5 x 35	0.020	0.040	2,880	16 x 31.5 18 x 25	0.017 0.019	0.034 0.038	3,450 3,140
5,600	562	12.5 x 35 16 x 20	0.02 0.027	0.040 0.054	2,880 2,530	12.5 x 40 16 x 25 18 x 20	0.017 0.021 0.026	0.034 0.042 0.052	3,350 2,930 2,860	16 x 35.5 18 x 31.5	0.015 0.015	0.030 0.030	3,610 4,170
6,800	682	12.5 x 40 16 x 25 18 x 20	0.017 0.021 0.026	0.034 0.042 0.052	3,350 2,930 2,860	16.0 x 31.5 18 x 25	0.017 0.019	0.034 0.038	3,450 3,140	16 x 40	0.013	0.026	4,080
8,200	822	16 x 31.5	0.017	0.034	3,450	16 x 35.5 18 x 31.5	0.015 0.015	0.030 0.030	3,610 4,170	18 x 35.5	0.014	0.020	4,220
10,000	103	16 x 35.5 18 x 25	0.015 0.019	0.030 0.038	3,610 3,140	16 x 31.5 18 x 25	0.017 0.019	0.034 0.038	3,450 3,140	16 x 40	0.013	0.026	4,080
12,000	123	16 x 40 18 x 31.5	0.013 0.015	0.026 0.030	4,080 4,170	18 x 40	0.012	0.024	4,280				
15,000	153	18 x 35.5	0.014	0.028	4,220								
18,000	183	18 x 40	0.012	0.024	4,280								

DIMENSIONS & PERMISSIBLE RIPPLE CURRENT AND MAX IMPEDANCE

Dimension: D x L(mm)
105°C

V. DC Contents μF		35V (1V)				50V (1H)				63V (1J)			
		D x L	Impedance (Ω, Max / 100kHz)		Ripple Current (mA / rms, 105°C)	D x L	Impedance (Ω, Max / 100kHz)		Ripple Current (mA / rms, 105°C)	D x L	Impedance (Ω, Max / 100kHz)		Ripple Current (mA / rms, 105°C)
			20°C	-10°C			20°C	-10°C			20°C	-10°C	
2.2	2R2					5 x 11	3.3	6.6	43				
3.3	3R3					5 x 11	2.9	5.8	53				
4.7	4R7					5 x 11	2.5	5.0	95				
10	100					5 x 11	2	4.0	130				
15	150									5 x 11	1.2	2.4	165
22	220					5 x 11	0.91	1.82	180				
33	330	5 x 11	0.58	1.16	210					6.3 x 11	0.49	0.98	265
56	560	6.3 x 11	0.22	0.44	340	6.3 x 11	0.39	0.78	295	8 x 12	0.31	0.62	500
82	820									8 x 15 10 x 12.5	0.22 0.150	0.44 0.3	665 690
100	101					8 x 11.5	0.220	0.440	555				
120	121					8 x 15	0.150	0.300	730	8 x 20.0 10 x 16.0	0.170 0.110	0.340 0.220	820 950
150	151	8 x 11.5	0.110	0.220	640	10 x 12.5	0.160	0.320	760				
180	181					8 x 20	0.118	0.236	910	10 x 20.0 12.5 x 16.0	0.078 0.101	0.156 0.202	1,150 1,150
220	221	8 x 15 10 x 12.5	0.083 0.080	0.166 0.160	840 865	10 x 16	0.110	0.220	1,050	10 x 25	0.064	0.128	1,350
270	271	8 x 20	0.064	0.128	1,050	10.0 x 20 12.5 x 60	0.078 0.079	0.156 0.158	1,220 1,260	12.5 x 20	0.034	0.126	1,500
330	331	10 x 16	0.060	0.120	1,210	10 x 25	0.072	0.144	1,440	12.5 x 20	0.034	0.126	1,582
390	391									12.5 x 20	0.034	0.126	1,582
470	471	10 x 20 12.5 x 16	0.046 0.049	0.092 0.098	1,400 1,450	10 x 30 12.5 x 20 16 x 16	0.056 0.059 0.072	0.112 0.118 0.114	1,690 1,660 1,690	12.5 x 25 12.5 x 30 16 x 20	0.044 0.039 0.045	0.088 0.078 0.090	1,900 2,300 2,000
560	561	10 x 25	0.042	0.084	1,650	12.5 x 25 18 x 16	0.044 0.070	0.088 0.140	1,950 1,930	12.5 x 35	0.034	0.068	2,500
680	681	10 x 25 10 x 30 12.5 x 20 16 x 16	0.030 0.031 0.035 0.042	0.060 0.062 0.070 0.084	2,200 2,200 1,900 1,940	12.5 x 30	0.039	0.078	2,310	12.5 x 40 16 x 25 18 x 20	0.029 0.035 0.042	0.058 0.070 0.084	2,800 2,600 2,500
820	821	10 x 25	0.030	0.060	2,200	12.5 x 35 16 x 20	0.033 0.044	0.066 0.088	2,510 2,210	12.5 x 30 16 x 31.5 18 x 25	0.022 0.029 0.034	0.066 0.058 0.068	2,700 2,850 2,800
1,000	102	12.5 x 25 18 x 16	0.027 0.043	0.054 0.086	2,230 2,210	12.5 x 40 16 x 25 18 x 20	0.027 0.033 0.047	0.054 0.066 0.094	2,920 2,555 2,490	16 x 35.5	0.027	0.054	2,900
1,200	122	12.5 x 30 16 x 20	0.024 0.027	0.048 0.054	2,650 2,530	16 x 31.5 18 x 25	0.027 0.028	0.054 0.056	3,010 2,740	16 x 40 18 x 25 18 x 31.5	0.025 0.022 0.028	0.050 0.086 0.056	3,400 2,800 3,300
1,500	152	12.5 x 25	0.024	0.040	2,530	16 x 35.5	0.024	0.048	3,150	18 x 35.5	0.025	0.050	3,400
1,800	182	12.5 x 35 16 x 25 18 x 20	0.017 0.021 0.026	0.034 0.042 0.052	3,350 2,930 2,860	16 x 40 18 x 31.5	0.021 0.024	0.042 0.048	3,710 3,635	18 x 40	0.024	0.048	3,500
2,200	222	16 x 31.5 18 x 25	0.017 0.019	0.034 0.038	3,450 3,140	18 x 35.5	0.022	0.044	3,680				
2,700	272	16 x 35.5 18 x 31.5	0.015 0.015	0.030 0.030	3,610 4,170	18 x 40	0.018	0.036	3,800				
3,300	332	16 x 35.5 18 x 35.5	0.013 0.014	0.026 0.028	4,080 4,220								
3,900	392	16 x 35.5 18 x 40	0.010 0.012	0.030 0.024	4,200 4,280								

■ HOW TO MAKE A PART NUMBER (Example below)



1. Series: RZW

2. Capacitance: Rated capacitance in μ F is represented by a three digit number. The first two digits are the significant figures of the nominal capacitance and the third digit indicates the number of zeros following these figures. The decimal point is represented by the capital letter R. Please refer to the following example.

μ F	0.1	0.47	1	4.7	10	47	100	470	1000	4700	10000
Part Number	0R1	R47	010	4R7	100	470	101	471	102	472	103

3. Tolerance: (20% IS Typical)

Code	K	M	T	W
Tolerance	$\pm 10\%$	$\pm 20\%$	+ 50% / -10%	+ 100% / -10%

4. Rated Voltage: Voltage in volts (V) is represented by a two digit code showing the rated working voltage indicated as follows:

Voltage (WV)	6.3	10	16	25	35	40	50	63	80	100	160	200	250	350	400	450
Code	0J	1A	1C	1E	1V	1G	1H	1J	1K	2A	2C	2D	2E	2V	2G	2W

5. Lead Forming & Package

Code	Lead Description	Packaging
BC	Bending Cut	Bulk Packing
BK	Straight Lead	Bulk Packing
CC	Lead Cutting	Bulk Packing
FC	Lead Forming & Cutting	Bulk Packing
FF	Lead Forming	Bulk Packing
SC	Snap-in & Cutting	Bulk Packing
SD	Cathode Lead Beading	Bulk Packing
SF	Snap-in, Forming & Cutting	Bulk Packing
SA	Straight Lead	Tape & Ammo
TA	Lead Forming	Tape & Ammo
SR	Straight Lead	Tape & Reel
TR	Lead Forming	Tape & Reel

6. Can Size

Diameter (mm)x10 & Length (mm)x10. Can Size 063110, represents 6.3mm diameter by 11mm length.

7. Sleeve Type* = (Omit) PVC Sleeve

P = PET Sleeve

*Note: All standard RFE Aluminum Electrolytic Capacitors are Lead (Pb) free and RoHS compliant. PET sleeve is available for those companies that also require PVC free product.

LEADED TAPING & PACKAGING SPECIFICATIONS Taping Specification for Radial Lead Type

Fig. 1

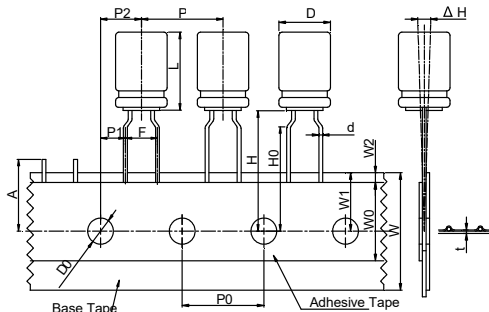


Fig. 2

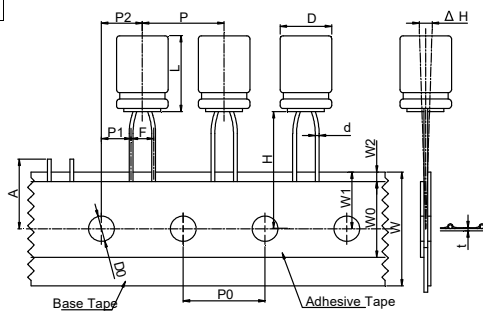


Fig. 3

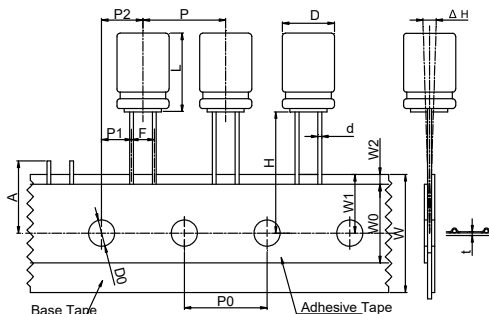
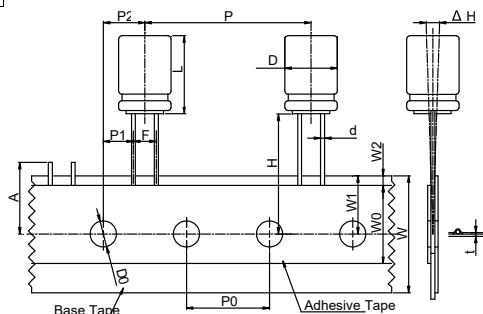


Fig. 4



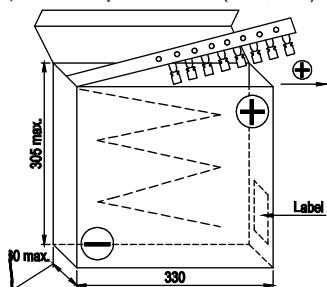
Packing	TA, TR (Fig. 1)								SA, SR (Fig. 2, 3, 4)											
L	L ≤ 7mm					L ≥ 7mm			L ≤ 7mm					L ≥ 7mm						
D	3	4	5	6.3	8	5	6.3	8	3	4	5	6.3	8	5	6.3	8	Tol.	10	13	Tol.
Symbol																				
d	0.4	0.45	0.5	0.5	0.5	0.5	0.5	0.6	0.4	0.45	0.45	0.45	0.45	0.5	0.5	0.6	± 0.05	0.6	0.6	± 0.05
F	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	3.5	2.5	2.5	3.5	-0.2/+0.8	5.0	5.0	-0.2/+0.8
P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	± 1.0	12.7	25.4	± 1.0
P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	± 0.2	12.7	12.7	± 0.30
P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	± 1.0	6.35	6.35	± 1.3
P1	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	5.1	5.1	5.1	5.1	4.6	5.1	5.1	4.6	± 0.5	3.85	3.85	± 0.7
H	17.5	17.5	17.5	17.5	17.5	18.5	18.5	20.0	17.5	17.5	17.5	17.5	17.5	18.5	18.5	18.5	± 0.75	18.5	18.5	± 0.75
H0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	--	--	--	--	--	--	--	--	± 0.5	--	--	± 0.5
W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	± 0.5	18.0	18.0	± 0.5
W0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	Min	12.0	12.0	Min.
W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	± 0.5	9.0	9.0	± 0.5
W2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	Max.	1.5	1.5	Max.
D0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	± 0.2	4.0	4.0	± 0.2
t	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	± 0.2	0.7	0.7	± 0.2
Δ H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	± 1.0	0	0	± 1.0
ε	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Max.	1.0	1.0	Max.
A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	Max.	11	11	Max.
Fig. No.	1	1	1	1	1	1	1	1	2	2	2	3	3	2	3	3		3	3,4	

RADIAL FORMING

Lead Forming & Cutting Specifications for Radial Type (Unit: mm)

Forming Method	Code	Shape	Dimensions																																																																																
Forming Cut (4 ~ 8)	FC		<table><tr><th>D x L</th><th>d</th><th>F</th><th>F'</th><th>H</th></tr><tr><td>3 x 5</td><td>0.40</td><td>1.0</td><td>5.0</td><td>5.0</td></tr><tr><td>4 x 5</td><td>0.45</td><td>1.5</td><td>5.0</td><td>5.0</td></tr><tr><td>5 x 5</td><td>0.45</td><td>2.0</td><td>5.0</td><td>5.0</td></tr><tr><td>6.3 ~ 8 x 5</td><td>0.45</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>4 x 7</td><td>0.45</td><td>1.5</td><td>5.0</td><td>5.0</td></tr><tr><td>5 x 7 ~ 11</td><td>0.5</td><td>2.0</td><td>5.0</td><td>5.0</td></tr><tr><td>6 x 7 ~ 15</td><td>0.5</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>8 x 7 ~ 9</td><td>0.5</td><td>3.5</td><td>5.0</td><td>5.0</td></tr><tr><td>8 x 11.5 ~ 20</td><td>0.6</td><td>3.5</td><td>5.0</td><td>5.0</td></tr><tr><td>10</td><td>0.6</td><td>5.0</td><td>-</td><td>4.5</td></tr><tr><td>12.5</td><td>0.6</td><td>5.0</td><td>-</td><td>4.5</td></tr><tr><td>16</td><td>0.8</td><td>7.5</td><td>-</td><td>4.5</td></tr><tr><td>18</td><td>0.8</td><td>7.5</td><td>-</td><td>4.5</td></tr><tr><td>22</td><td>1.0</td><td>10.0</td><td>-</td><td>4.5</td></tr><tr><td>25</td><td>1.0</td><td>12.5</td><td>-</td><td>4.5</td></tr></table>	D x L	d	F	F'	H	3 x 5	0.40	1.0	5.0	5.0	4 x 5	0.45	1.5	5.0	5.0	5 x 5	0.45	2.0	5.0	5.0	6.3 ~ 8 x 5	0.45	2.5	5.0	5.0	4 x 7	0.45	1.5	5.0	5.0	5 x 7 ~ 11	0.5	2.0	5.0	5.0	6 x 7 ~ 15	0.5	2.5	5.0	5.0	8 x 7 ~ 9	0.5	3.5	5.0	5.0	8 x 11.5 ~ 20	0.6	3.5	5.0	5.0	10	0.6	5.0	-	4.5	12.5	0.6	5.0	-	4.5	16	0.8	7.5	-	4.5	18	0.8	7.5	-	4.5	22	1.0	10.0	-	4.5	25	1.0	12.5	-	4.5
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Ammo pack box.(SA,TA) Reel pack box.(SR,TR)
10 Boxes per carton



Packaging Quantity

D	3	4	5	6.3	8	10	13
TA, SA	3000	2000	2000	2000	1000	500	250
TR, SR	3000	1500	1200	1000	800	500	500

NOTES:

- The above quantities are typical. Quantities may vary.
- The component will be oriented on the tape so that the positive lead is leading or the negative lead is leading, depending on the customer's request