



## Photoflash Aluminum Electrolytic Capacitors

+ 55°C Radial Lead

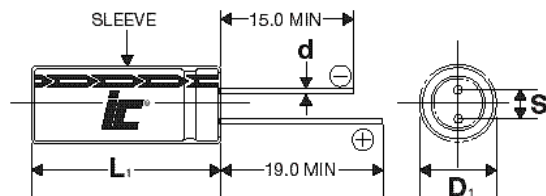
### FEATURES

Reduced Case Size - High Voltage - Low Leakage - Low Dissipation Factor - JIS 2365 Compliant

### APPLICATIONS

Emergency lights - Signal lights

<b>Operating Temperature Range</b>		<b>-20°C to +55°C</b>			
<b>Capacitance Tolerance</b>		<b>-10 to +20% at 120 Hz, 25°C</b>			
<b>Surge voltage</b>	<b>WVDC</b>	<b>300</b>	<b>310</b>	<b>330</b>	<b>360</b>
	<b>SVDC</b>	320	335	350	390
<b>Dissipation Factor 120 Hz, 25°C</b>	<b>tan δ</b>	0.06			
<b>Leakage current @25°C, Rated WVDC applied</b>		<b>time</b>	<b>5 Minutes</b>		
			1°C		
<b>Charge/discharge</b>		<b>5000 flashes at rated voltage applied at 5~35°C repeating every 30 seconds thru a Xe flash tube having a discharge resistance of 0.7~1.0Ω</b>			
		<b>Capacitance change</b>	≤10% of initial measured value		
		<b>Dissipation factor</b>	≤150% of maximum specified value		
		<b>Leakage current</b>	≤150% of maximum specified value		
<b>Shelf Life</b>		<b>500 hours at 55°C with no voltage applied</b>			
		<b>Capacitance change</b>	≤10% initial measured value		
		<b>Dissipation factor</b>	≤150% of maximum specified value		
		<b>Leakage current</b>	≤150% of maximum specified value		



D	9.2	9.5	10	10.3	10.6	11	12	12.5	13	13.5	14	14.5	16	18	20
d	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
S	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	7.5	7.5

D<sub>1</sub>=D+0.3mm  
L<sub>1</sub>=L+0.5mm  
S<sub>1</sub>=D±0.5mm

# FSR

+55°C, photoflash Radial lead

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	LC (µA) 20°C, 5 minutes	Dims DxL (mm)
30	300	306FSR300XZ2BW	2.947	30	9.2x16
30	300	306FSR300XZ5BD	2.947	30	9.5x15
30	310	306FSR310XZ2BS	2.947	30	9.2x17
30	330	306FSR330Z2BF	2.947	30	9.2x18
47	300	476FSR300XG3BF	1.881	47	10.3x18
47	300	476FSR300XGRK	1.881	47	10x19
47	300	476FSR300XZ2JJ	1.881	47	9.2x22
47	300	476FSR300XZ5JB	1.881	47	9.5x21
47	310	476FSR310XZ2JA	1.881	47	9.2x23
47	310	476FSR310XZ5JJ	1.881	47	9.5x22
47	330	476FSR330XGJB	1.881	47	10x21
47	330	476FSR330XZ2JC	1.881	47	9.2x24
47	330	476FSR330XZ5JA	1.881	47	9.5x23
50	300	506FSR300XBBS	1.768	50	11x17
50	300	506FSR300XG3BK	1.768	50	10.3x19
50	300	506FSR300XG6BF	1.768	50	10.6x18
50	300	506FSR300XGJG	1.768	50	10x20
50	300	506FSR300XZ2JA	1.768	50	9.2x23
50	300	506FSR300XZ5JJ	1.768	50	9.5x22
50	310	506FSR310XGJG	1.768	50	10x20
50	310	506FSR310XZ2JC	1.768	50	9.2x24
50	310	506FSR310XZ5JA	1.768	50	9.5x23
50	330	506FSR330XG3JG	1.768	50	10.3x20
50	330	506FSR330XGJJ	1.768	50	10x22
50	330	506FSR330XZ2JD	1.768	50	9.2x25
50	330	506FSR330XZ5JC	1.768	50	9.5x24
50	360	506FSR360XG3JC	1.768	50	10.3x24
50	360	506FSR360XG6JA	1.768	50	10.6x23
50	360	506FSR360XGJW	1.768	50	10x26
50	360	506FSR360XZ2AB	1.768	50	9.2x31
50	360	506FSR360XZ5JK	1.768	50	9.5x29
55	300	556FSR300XBBF	1.608	55	11x18
55	300	556FSR300XG3JG	1.608	55	10.3x20
55	300	556FSR300XG6BK	1.608	55	10.6x19
55	300	556FSR300XGJB	1.608	55	10x21
55	300	556FSR300XHBC	1.608	55	12x14
55	300	556FSR300XZ2JD	1.608	55	9.2x25
55	300	556FSR300XZ5JC	1.608	55	9.5x24
55	310	556FSR310XG3JB	1.608	55	10.3x21
55	310	556FSR310XGJJ	1.608	55	10x22
55	310	556FSR310XZ2JW	1.608	55	9.2x26
55	310	556FSR310XZ5JD	1.608	55	9.5x25
55	330	556FSR330XG3JJ	1.608	55	10.3x22
55	330	556FSR330XG6JB	1.608	55	10.6x21
55	330	556FSR330XGJA	1.608	55	10x23
55	330	556FSR330XZ2JS	1.608	55	9.2x27
55	330	556FSR330XZ5JW	1.608	55	9.5x26
60	300	606FSR300XBBK	1.474	60	11x19
60	300	606FSR300XG3JJ	1.474	60	10.3x22
60	300	606FSR300XG6JG	1.474	60	10.6x20
60	300	606FSR300XGJA	1.474	60	10x23
60	300	606FSR300XHBD	1.474	60	12x15
60	300	606FSR300XZ2JS	1.474	60	9.2x27
60	300	606FSR300XZ5JW	1.474	60	9.5x26
60	310	606FSR310XG3JJ	1.474	60	10.3x22
60	310	606FSR310XG6JB	1.474	60	10.6x21
60	310	606FSR310XGJA	1.474	60	10x23
60	310	606FSR310XZ2JF	1.474	60	9.2x28

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	LC (µA) 20°C, 5 minutes	Dims DxL (mm)
60	310	606FSR310XZ5JW	1.474	60	9.5x26
60	330	606FSR330XBJG	1.474	60	11x20
60	330	606FSR330XG3JA	1.474	60	10.3x23
60	330	606FSR330XG6JJ	1.474	60	10.6x22
60	330	606FSR330XGJD	1.474	60	10x25
60	330	606FSR330XZ2JK	1.474	60	9.2x29
60	330	606FSR330XZ5JS	1.474	60	9.5x27
60	360	606FSR360XBJC	1.474	60	11x24
60	360	606FSR360XG3JF	1.474	60	10.3x28
60	360	606FSR360XG6JW	1.474	60	10.6x26
60	360	606FSR360XGAG	1.474	60	10x30
60	360	606FSR360XZ2AW	1.474	60	9.2x36
60	360	606FSR360XZ5AA	1.474	60	9.5x33
70	300	706FSR300XBJB	1.263	70	11x21
70	300	706FSR300XG3JC	1.263	70	10.3x24
70	300	706FSR300XG6JJ	1.263	70	10.6x22
70	300	706FSR300XGJD	1.263	70	10x25
70	300	706FSR300XHBS	1.263	70	12x17
70	300	706FSR300XTBW	1.263	70	12.5x16
70	300	706FSR300XZ2AG	1.263	70	9.2x30
70	300	706FSR300XZ5JK	1.263	70	9.5x29
70	310	706FSR310XBJJ	1.263	70	11x22
70	310	706FSR310XG3JD	1.263	70	10.3x25
70	310	706FSR310XG6JA	1.263	70	10.6x23
70	310	706FSR310XGJW	1.263	70	10x26
70	310	706FSR310XHBS	1.263	70	12x17
70	310	706FSR310XZ2AB	1.263	70	9.2x31
70	310	706FSR310XZ5AG	1.263	70	9.5x30
70	330	706FSR330XBJA	1.263	70	11x23
70	330	706FSR330XG3JW	1.263	70	10.3x26
70	330	706FSR330XG6JD	1.263	70	10.6x25
70	330	706FSR330XGJS	1.263	70	10x27
70	330	706FSR330XHBF	1.263	70	12x18
70	330	706FSR330XZ2AA	1.263	70	9.2x33
70	330	706FSR330XZ5AB	1.263	70	9.5x31
80	300	806FSR300XBJA	1.105	80	11x22
80	300	806FSR300XGJF	1.105	80	10x28
80	300	806FSR300XHBF	1.105	80	12x18
80	300	806FSR300XTBS	1.105	80	12.5x17
80	300	806FSR300XZ2A	1.105	80	9.2x34
80	300	806FSR300XZ5AA	1.105	80	9.5x33
80	310	806FSR310XBJC	1.105	80	11x24
80	310	806FSR310XG3JF	1.105	80	10.3x28
80	310	806FSR310XG6JW	1.105	80	10.6x26
80	310	806FSR310XGJK	1.105	80	10x29
80	310	806FSR310XHBC	1.105	80	12x19
80	310	806FSR310XTBF	1.105	80	12.5x18
80	310	806FSR310XZ2AD	1.105	80	9.2x35
80	310	806FSR310XZ5AA	1.105	80	9.5x33
80	330	806FSR330XBJD	1.105	80	11x25
80	330	806FSR330XG3JK	1.105	80	10.3x29
80	330	806FSR330XG6JS	1.105	80	10.6x27
80	330	806FSR330XGAG	1.105	80	10x30
80	330	806FSR330XHJG	1.105	80	12x20
80	330	806FSR330XTBK	1.105	80	12.5x19
80	330	806FSR330XZ2AS	1.105	80	9.2x37
80	330	806FSR330XZ5AC	1.105	80	9.5x34
80	360	806FSR360XBAG	1.105	80	11x30

# FSR

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Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	LC (µA) 20°C, 5 minutes	Dims DxL (mm)
80	360	806FSR360XG3AD	1.105	80	10.3x5
80	360	806FSR360XG6AA	1.105	80	10.6x33
80	360	806FSR360XGAC	1.105	80	10x34
80	360	806FSR360XHJC	1.105	80	12x24
80	360	806FSR360XK5CA	1.105	80	9.5x43
100	300	107FSR300XBJF	0.884	100	11x28
100	300	107FSR300XG3AJ	0.884	100	10.3x32
100	300	107FSR300XG6AG	0.884	100	10.6x30
100	300	107FSR300XGAC	0.884	100	10x34
100	300	107FSR300XHJJ	0.884	100	12x22
100	300	107FSR300XZ2CB	0.884	100	9.2x41
100	300	107FSR300XZ5CG	0.884	100	9.5x40
100	300	107FSR300XTJG	0.884	100	12.5x20
100	310	107FSR310XBJF	0.884	100	11x28
100	310	107FSR310XG3AA	0.884	100	10.3x33
100	310	107FSR310XG6AB	0.884	100	10.6x31
100	310	107FSR310XGAD	0.884	100	10x35
100	310	107FSR310XHJJ	0.884	100	12x22
100	310	107FSR310XZ2CA	0.884	100	9.2x43
100	310	107FSR310XZ5CG	0.884	100	9.5x40
100	310	107FSR310XTJB	0.884	100	12.5x21
100	330	107FSR330XBAG	0.884	100	11x30
100	330	107FSR330XG3AD	0.884	100	10.3x35
100	330	107FSR330XG6AJ	0.884	100	10.6x32
100	330	107FSR330XGAS	0.884	100	10x37
100	330	107FSR330XHJA	0.884	100	12x23
100	330	107FSR330XZ2CA	0.884	100	9.2x43
100	330	107FSR330XZ5CG	0.884	100	9.5x40
100	330	107FSR330XTJJ	0.884	100	12.5x22
100	330	107FSR330XPV	0.884	100	13.5x25.5
100	360	107FSR360XBAB	0.884	100	11x36
100	360	107FSR360XG3CA	0.884	100	10.3x43
100	360	107FSR360XG6CG	0.884	100	10.6x40
100	360	107FSR360XGCD	0.884	100	10x45
100	360	107FSR360XHJF	0.884	100	12x28
100	360	107FSR360XTJS	0.884	100	12.5x27
110	300	117FSR300XBAG	0.804	110	11x30
110	300	117FSR300XG3AD	0.804	110	10.3x35
110	300	117FSR300XG6AJ	0.804	110	10.6x32
110	300	117FSR300XGAS	0.804	110	10x37
110	300	117FSR300XHJA	0.804	110	12x23
110	300	117FSR300XJJB	0.804	110	13x21
110	300	117FSR300XZ5CJ	0.804	110	9.5x42
110	300	117FSR300XTJJ	0.804	110	12.5x22
110	310	117FSR310XBAB	0.804	110	11x31
110	310	117FSR310XG3AW	0.804	110	10.3x36
110	310	117FSR310XG6AA	0.804	110	10.6x33
110	310	117FSR310XGAF	0.804	110	10x38
110	310	117FSR310XHJC	0.804	110	12x24
110	310	117FSR310XJJJ	0.804	110	13x22
110	310	117FSR310XZ2CW	0.804	110	9.2x46
110	310	117FSR310XZ5CA	0.804	110	9.5x43
110	310	117FSR310XTJA	0.804	110	12.5x23
110	330	117FSR330XBAJ	0.804	110	11x32
110	330	117FSR330XG3AF	0.804	110	10.3x38
110	330	117FSR330XG6AD	0.804	110	10.6x35
110	330	117FSR330XGCG	0.804	110	10x40
110	330	117FSR330XHJD	0.804	110	12x25

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	LC (µA) 20°C, 5 minutes	Dims DxL (mm)
110	330	117FSR330XJJA	0.804	110	13x23
110	330	117FSR330XZ5CD	0.737	110	9.5x45
110	330	117FSR330XPJJ	0.804	110	13.5x22
110	330	117FSR330XTJC	0.804	110	12.5x24
120	300	127FSR300XBAJ	0.737	120	11x32
120	300	127FSR300XG3CA	0.737	120	10.3x43
120	300	127FSR300XG6AD	0.737	120	10.6x35
120	300	127FSR300XGCG	0.737	120	10x40
120	300	127FSR300XHJD	0.737	120	12x25
120	300	127FSR300XJJA	0.737	120	13x23
120	300	127FSR300XTJC	0.737	120	12.5x24
120	310	127FSR310XBAA	0.737	120	11x33
120	310	127FSR310XG3AK	0.737	120	10.3x39
120	310	127FSR310XG6AW	0.737	120	10.6x36
120	310	127FSR310XGCG	0.737	120	10x40
120	310	127FSR310XHJD	0.737	120	12x25
120	310	127FSR310XJJA	0.737	120	13x23
120	310	127FSR310XZ5CS	0.737	120	9.5x47
120	310	127FSR310XTJC	0.737	120	12.5x24
120	330	127FSR330XBAD	0.737	120	11x35
120	330	127FSR330XG3CB	0.737	120	10.3x41
120	330	127FSR330XG6AF	0.737	120	10.6x38
120	330	127FSR330XGCA	0.737	120	10x43
120	330	127FSR330XHJS	0.737	120	12x27
120	330	127FSR330XJJD	0.737	120	13x25
120	330	127FSR330XPJA	0.737	120	13.5x23
120	330	127FSR330XTJW	0.737	120	12.5x26
120	360	127FSR360XBCA	0.737	120	11x43
120	360	127FSR360XG6CW	0.737	120	10.6x46
120	360	127FSR360XHJA	0.737	120	12x32
120	360	127FSR360XTAB	0.737	120	12.5x30
140	300	147FSR300XBAB	0.632	140	11x36
140	300	147FSR300XG3CF	0.632	140	10.3x48
140	300	147FSR300XG6CG	0.632	140	10.6x40
140	300	147FSR300XHJF	0.632	140	12x28
140	300	147FSR300XJJC	0.632	140	13x24
140	300	147FSR300XTJD	0.632	140	12.5x25
140	300	167FSR300XBCB	0.553	160	11x41
140	300	167FSR300XG6CC	0.553	160	10.6x44
140	310	147FSR310XBAF	0.632	140	11x38
140	310	147FSR310XG3CC	0.632	140	10.3x44
140	310	147FSR310XG6CB	0.632	140	10.6x41
140	310	147FSR310XGCV	0.632	140	10x46
140	310	147FSR310XHJK	0.632	140	12x29
140	310	147FSR310XJJS	0.632	140	13x27
140	310	147FSR310XTJF	0.632	140	12.5x28
140	330	147FSR330XBAK	0.632	140	11x39
140	330	147FSR330XG3CW	0.632	140	10.3x46
140	330	147FSR330XG6CA	0.632	140	10.6x43
140	330	147FSR330XHAG	0.632	140	12x30
140	330	147FSR330XJJF	0.632	140	13x28
140	330	147FSR330XPJW	0.632	140	13.5x26
140	330	147FSR330XQJC	0.632	140	14x24
140	330	147FSR330XTJK	0.632	140	12.5x29
140	330	147FSR330XZBG	0.632	140	11x47
140	360	147FSR360XBCB	0.632	140	11x49
140	360	147FSR360XHAW	0.632	140	12x36
140	360	147FSR360XJAC	0.632	140	13x34

# FSR

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Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	LC (µA) 20°C, 5 minutes	Dims DxL (mm)
140	360	147FSR360XPJ	0.632	140	13.5x32
140	360	147FSR360XQJK	0.632	140	14x29
140	360	147FSR360XRJF	0.632	140	14.5x28
140	360	147FSR360XTAD	0.632	140	12.5x35
160	300	187FSR300XKJA	0.491	160	16x23
160	300	167FSR300XJJK	0.553	160	13x29
160	300	167FSR300XKJB	0.553	160	16x21
160	300	167FSR300XPJS	0.553	160	13.5x27
160	300	167FSR300XQJD	0.553	160	14x25
160	300	167FSR300XRJA	0.553	160	14.5x23
160	300	167FSR300XTAG	0.553	160	12.5x30
160	310	167FSR310XBCJ	0.553	160	11x42
160	310	167FSR310XG6CW	0.553	160	10.6x46
160	310	167FSR310XHJ	0.553	160	12x32
160	310	167FSR310XJAG	0.553	160	13x30
160	310	167FSR310XPJF	0.553	160	13.5x28
160	310	167FSR310XQJW	0.553	160	14x26
160	310	167FSR310XRJC	0.553	160	14.5x24
160	310	167FSR310XTAB	0.553	160	12.5x31
160	310	167FSR330XJAB	0.553	160	13x31
160	330	167FSR330XKJJ	0.553	160	16x22
160	330	167FSR330XPJK	0.553	160	13.5x29
160	330	167FSR330XQJS	0.553	160	14x27
160	330	167FSR330XRJD	0.553	160	14.5x25
160	330	167FSR330XTAJ	0.553	160	12.5x32
160	330	167FSR330XBCC	0.553	160	11x44
160	330	167FSR330XG6CF	0.553	160	10.6x48
160	330	167FSR330XHAA	0.553	160	12x33
160	360	167FSR360XHCB	0.553	160	12x41
160	360	167FSR360XJAF	0.553	160	13x38
160	360	167FSR360XPJW	0.553	160	13.5x36
160	360	167FSR360XQAA	0.553	160	14x33
160	360	167FSR360XRAB	0.553	160	14.5x31
160	360	167FSR360XTAK	0.553	160	12.5x39
180	300	187FSR300XBCD	0.491	160	11x45
180	300	187FSR300XHAC	0.491	160	12x34
180	300	187FSR300XJAJ	0.491	160	13x32
180	300	187FSR300XLJJ	0.491	180	18x22
180	300	187FSR300XPAG	0.491	180	13.5x30
180	300	187FSR300XQJS	0.491	180	14x27
180	300	187FSR300XRJW	0.491	180	14.5x26
180	300	187FSR300XTAA	0.491	180	12.5x33
180	310	187FSR310XBSC	0.491	180	11x47
180	310	187FSR310XHAD	0.491	180	12x35

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	LC (µA) 20°C, 5 minutes	Dims DxL (mm)
180	310	187FSR310XJAA	0.491	180	13x33
180	310	187FSR310XKJC	0.491	180	16x24
180	310	187FSR310XLJJ	0.491	180	18x22
180	310	187FSR310XPAG	0.491	180	13.5x30
180	310	187FSR310XQJF	0.491	180	14x28
180	310	187FSR310XRJS	0.491	180	14.5x27
180	310	187FSR310XTAC	0.491	180	12.5x34
180	330	187FSR330XBCF	0.491	180	11x48
180	330	187FSR330XHAS	0.491	180	12x37
180	330	187FSR330XJAC	0.491	180	13x34
180	330	187FSR330XKJD	0.491	180	16x25
180	330	187FSR330XLJA	0.491	180	18x23
180	330	187FSR330XPJ	0.491	180	13.5x32
180	330	187FSR330XQJK	0.491	180	14x29
180	330	187FSR330XRJF	0.491	180	14.5x28
180	330	187FSR330XTAD	0.491	180	12.5x35
180	360	187FSR360XHCD	0.491	180	12x45
180	360	187FSR360XJCY	0.491	180	13x42
180	360	187FSR360XPJW	0.491	180	13.5x39
180	360	187FSR360XQAW	0.491	180	14x36
180	360	187FSR360XRAC	0.491	180	14.5x34
180	360	187FSR360XTCC	0.491	180	12.5x44
200	360	207FSR360XJCW	0.442	200	13x46
200	360	207FSR360XKAW	0.442	200	16x36
200	360	207FSR360XPCA	0.442	200	13.5x43
200	360	207FSR360XQCG	0.442	200	14x40
200	360	207FSR360XRAF	0.442	200	14.5x38
200	360	207FSR360XTCF	0.442	200	12.5x48
220	360	227FSR360XJDG	0.402	220	13x50
220	360	227FSR360XKAF	0.402	220	16x38
220	360	227FSR360XPSC	0.402	220	13.5x47
220	360	227FSR360XQCY	0.402	220	14x42
220	360	227FSR360XRCC	0.402	220	14.5x40
250	360	257FSR360XKCY	0.3981	250	16x42
250	360	257FSR360XLAS	0.3981	250	18x37
250	360	257FSR360XQCS	0.3981	250	14x47
250	360	257FSR360XRCC	0.3981	250	14.5x44
270	360	277FSR360XKCV	0.327	270	16x46
270	360	277FSR360XLAK	0.327	270	18x39
270	360	277FSR360XQDG	0.327	270	14x50
270	360	277FSR360XRCCF	0.327	270	14.5x48
300	360	307FSR360XKCF	0.29473	300	16x48
300	360	307FSR360XLCA	0.29473	300	18x43
300	360	307FSR360XMAJ	0.29473	300	20x32