

### VXR SERIES

105°C 7000 hours, Snap-in Terminal Type.

#### ◆ FEATURES

- Load Life : 105°C 7000hours.



#### ◆ SPECIFICATIONS

Items	Characteristics	
Operating Temperature Range	-25~+105°C	
Rated Voltage Range	160~450WV	
Capacitance Tolerance	±20%(20°C, 120Hz)	
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=Leakage Current(µA)    V=Rated Voltage(V)    C=Nominal Capacitance(µF)	
Dissipation Factor(MAX)	160~250WV	315~450WV
	0.15	0.20
Impedance Ratio(MAX)	Rated Voltage (V)	160~250WV    315~450WV
	Z(-25°C)/Z(20°C)	3    8
Load Life	After applying rated voltage with max. ripple current for 7000hrs at 105°C, the capacitors shall meet the following requirements.	
	Capacitance Change	Within ±20% of the initial value.
	Dissipation Factor	Not more than 200% of the specified value.
	Leakage Current	Not more than the specified value.

#### ◆ EXPLANATION OF PART NUMBER

□□□    VXR    □□□□□    □    □□    □□□  
 Rated Voltage    Series    Nominal Capacitance    Capacitance Tolerance    Terminal Code    Size Code

#### ◆ SIZE CODE

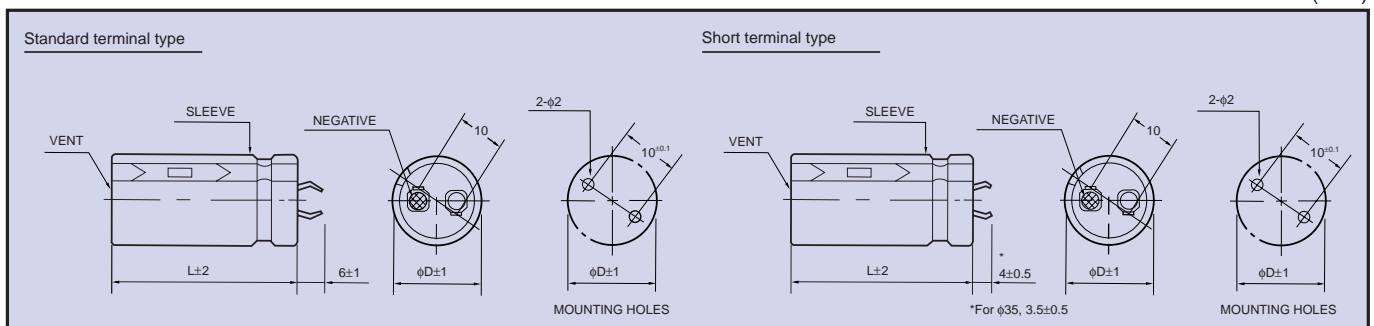
L	φD	22	25	30	35
25	A25	B25	C25	D25	
30	A30	B30	C30	D30	
35	A35	B35	C35	D35	
40	A40	B40	C40	D40	
45	A45	B45	C45	D45	
50	A50	B50	C50	D50	

#### ◆ Terminal Code

	Code
Standard Terminal	Blank
Short Terminal	ST

#### ◆ DIMENSIONS

(mm)



### ◆ STANDARD SIZE, MAX. PERMISSIBLE RIPPLE CURRENT

Cap(μF)	WV φD	160				180			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
220						22x25 1.00			
270	22x25 1.10					22x25 1.10			
330	22x25 1.20					22x30 1.20	25x25 1.20		
390	22x30 1.30	25x25 1.30				22x30 1.30	25x25 1.30		
470	22x35 1.40	25x30 1.40				22x35 1.40	25x30 1.40	30x25 1.40	
560	22x40 1.50	25x30 1.50	30x25 1.50			22x40 1.50	25x35 1.50	30x25 1.50	
680	22x45 1.70	25x35 1.70	30x30 1.70			22x45 1.70	25x35 1.70	30x30 1.70	
820	22x50 2.00	25x40 2.00	30x30 2.00				25x40 2.00	30x35 2.00	35x30 2.00
1000		25x45 2.20	30x35 2.20	35x30 2.20			25x50 2.20	30x35 2.20	35x30 2.20
1200		25x50 2.30	30x40 2.30	35x35 2.30				30x40 2.30	35x35 2.30
1500			30x45 2.50	35x35 2.50				30x50 2.50	35x40 2.50
1800			30x45 2.70	35x40 2.70					35x45 2.70
2200				35x45 2.90					35x50 2.90

Cap(μF)	WV φD	200				250			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
180						22x25 0.90	25x25 0.90		
220	22x25 1.00					22x30 1.00	25x25 1.00		
270	22x30 1.10	25x25 1.10				22x35 1.10	25x30 1.10	30x25 1.10	
330	22x30 1.20	25x25 1.20				22x40 1.20	25x30 1.20	30x25 1.20	
390	22x35 1.30	25x30 1.30	30x25 1.30			22x45 1.30	25x35 1.30	30x30 1.30	
470	22x40 1.40	25x35 1.40	30x25 1.40			22x50 1.40	25x40 1.40	30x30 1.40	35x30 1.40
560	22x45 1.50	25x35 1.50	30x30 1.50				25x45 1.50	30x35 1.50	35x30 1.50
680	22x50 1.70	25x40 1.70	30x30 1.70				25x50 1.70	30x40 1.70	35x35 1.70
820		25x45 2.00	30x35 2.00	35x30 2.00				30x45 2.00	35x35 2.00
1000			30x40 2.20	35x35 2.20				30x50 2.20	35x40 2.20
1200			30x45 2.30	35x40 2.30					35x45 2.30
1500				35x50 2.50					

Cap(μF)	WV φD	315				350			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
82	22x25 0.64					22x25 0.64			
100	22x30 0.69					22x30 0.69	25x25 0.69		
120	22x30 0.75	25x25 0.75				22x35 0.75	25x30 0.75		
150	22x35 0.82	25x30 0.82	30x25 0.82			22x40 0.82	25x30 0.82	30x25 0.82	
180	22x40 0.90	25x30 0.90	30x25 0.90			22x45 0.90	25x35 0.90	30x30 0.90	
220	22x45 1.00	25x35 1.00	30x30 1.00			22x50 1.00	25x40 1.00	30x30 1.00	
270		25x40 1.10	30x35 1.10	35x30 1.10			25x45 1.10	30x35 1.10	35x30 1.10
330		25x50 1.20	30x40 1.20	35x30 1.20				30x40 1.20	35x35 1.20
390			30x40 1.30	35x35 1.30				30x45 1.30	35x35 1.30
470			30x45 1.40	35x40 1.40				30x50 1.40	35x40 1.40
560				35x45 1.50					35x50 1.50
680				35x50 1.70					

Cap(μF)	WV φD	400				450			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
39						22x25 0.37			
47						22x30 0.40			
56	22x25 0.51					22x35 0.47	25x25 0.47		
68	22x30 0.56	25x25 0.56				22x40 0.53	25x30 0.53		
82	22x30 0.64	25x25 0.64				22x45 0.56	25x35 0.56	30x25 0.56	
100	22x35 0.69	25x30 0.69				22x50 0.64	25x40 0.64	30x30 0.64	
120	22x40 0.75	25x30 0.75	30x25 0.75				25x45 0.72	30x30 0.72	
150	22x45 0.82	25x35 0.82	30x30 0.82				25x50 0.79	30x40 0.79	35x30 0.79
180	22x50 0.90	25x40 0.90	30x30 0.90	35x25 0.90				30x45 0.87	35x35 0.87
220		25x45 1.00	30x35 1.00	35x30 1.00				30x50 1.00	35x40 1.00
270			30x40 1.10	35x35 1.10					35x45 1.19
330			30x45 1.20	35x40 1.20					35x50 1.38
390				35x45 1.30					
470				35x50 1.40					

Case Size φD<sup>±1x</sup>L<sup>±2</sup>(mm)

Ripple Current A r.m.s./120Hz·105°C

### ◆ MULTIPLIER FOR RIPPLE CURRENT

(1) Temperature coefficient

Ambient Temperature (°C)	105	85	65 $\geq$
Coefficient	1.0	1.7	2.1

(2) Frequency coefficient

Frequency (Hz)		60	120	500	1k	10k $\leq$
Coefficient	160~250WV	0.80	1.00	1.20	1.30	1.50
	315~450WV	0.80	1.00	1.20	1.25	1.40

### ◆ CHARACTERISTIC DATA

————— 200 VXR 820 M C35  
 - - - - - 400 VXR 220 M C35

#### • TEMPERATURE CHARACTERISTICS

