

## FX Series

### Inverter Use

FX series is ideal for use in inverter at the illuminator and the like. This is miniature sized and has low impedance at high frequency and long life.



## Specifications

Items	Specifications							
	Snap-in Type				Radial lead Type			
Rated voltage (V)	160	180	200	400	160	180	200	400
Operating temperature (°C)	-40 to +105			-25 to +105	-40 to +105			-25 to +105
Capacitance tolerance (%)	±20							(120Hz)
Tangent of loss angle (tan δ) (MAX.) (120Hz)	0.15				0.10			0.15
Leakage current (L.C.) (μA/after 2 min) (MAX.)	$3\sqrt{CV}$				0.02CV+25			
Impedance (120Hz) ratio at low temperature (MAX.)	$Z_{-25°C}/Z_{20°C}$	3		7	3		6	
	$Z_{-40°C}/Z_{20°C}$	12		—	5		—	
High-temperature load applied.	Test	105°C 5000hrs.			105°C 2000hrs.			
	ΔC/C	Within ±20% of the initial value						
	tan δ	≤ Twice the initial standard						
	L.C.	≤ The initial standard						
Other characteristics	Conform to IEC 60384-4							

## Size List

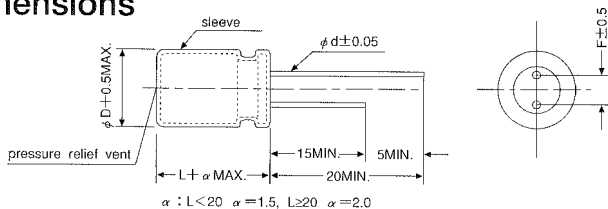
(φ D × Lmm)

V	160				180				
	Snap-in Type		Radial lead Type		Snap-in Type		Radial lead Type		
	Ripple current	φ 22	Ripple current	Standard	Ripple current	φ 22	φ 25	Ripple current	Standard
15			0.27	10×12.5				0.28	10×12.5
22			0.37	10×16				0.38	10×16
33			0.49	10×20				0.50	10×20
47			0.61	12.5×20				0.62	12.5×20
68			0.65	12.5×25				0.66	12.5×25
82			0.67	16×25				0.68	16×25
100			0.70	16×25				0.71	16×25
150	0.8	22×25	0.81	16×30	1.0	22×25	25×20	0.85	16×35.5
220	1.2	22×25	1.06	16×35.5	1.2	22×30	25×25	1.08	18×35.5

V	200				400							
	Snap-in Type		Radial lead Type		Snap-in Type		Radial lead Type					
	Ripple current	φ 22	φ 25	Ripple current	Standard	Ripple current	φ 22	φ 25	φ 30	Ripple current	Standard	Low profile
15				0.30	10×16					0.14	12.5×20	16×16
22				0.40	10×20					0.19	12.5×25	16×21
33				0.51	12.5×20					0.24	16×25	18×21
47				0.63	12.5×25	0.4	22×20			0.33	16×30	18×25
68				0.67	16×25	0.5	22×25			0.41	18×35.5	
82				0.68	16×25	0.7	22×30	25×25		0.46	18×41	
100				0.71	16×30	0.8	22×35	25×30	30×25			
150	1.0	22×25		0.88	18×35.5	1.0	22×45	25×35	30×30			
220	1.3	22×30	25×25	1.09	18×41	1.3	25×45	30×35				

MAX. permissible ripple current (A r.m.s. 10k to 100kHz, 105°C)

## Dimensions



(unit : mm)

φ D	10	12.5	16	18
F	5.0	5.0	7.5	7.5
φ d	0.6	0.6	0.8	0.8

Snap-in type is same as dimensions on page 54.

Model No. 400MV47FX Series name of low profile products is FXS

Capacitance symbol  
Rated voltage