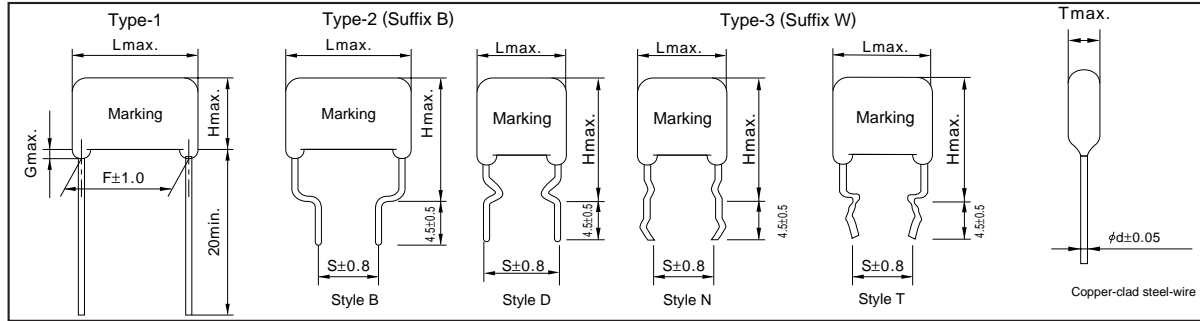


■ Dimensions in mm (not to scale)

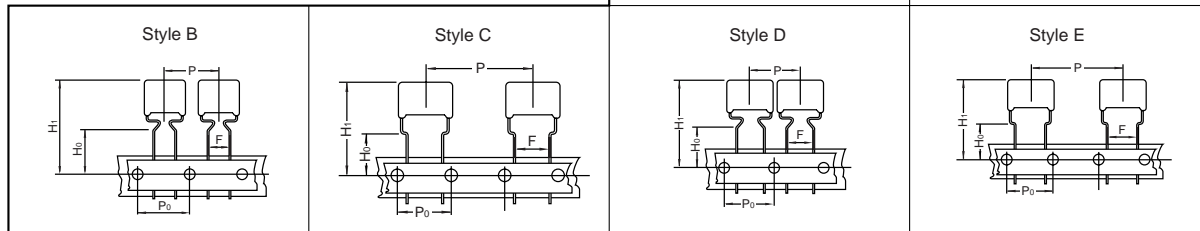


■ Packaging Specifications for Bulk Package

Packing quantity: 100pcs./bag

■ Taping Specifications for Automatic Insertion

● Taping style



※ See page 22 for Taping dimensions

● Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style								Packing	suffix
			AD	AS	AB	B	C	D	E			
ECQE (F)	100VDC	0.56 to 0.68	○								Ammo	() F3
		0.56 to 0.68	○								Reel	() F9
		0.82 to 1.0				○					Ammo	() F3
		1.2 to 3.3					○				Ammo	() F3
		1.2 to 3.3							○		Ammo	R() F
	250VDC	0.01 to 0.27	○								Ammo	() F3
		0.33				○					Ammo	() F3
		0.39 to 1.5					○				Ammo	() F3
		0.01 to 0.33						○			Ammo	R() F
		0.39 to 1.5							○		Ammo	R() F
	400VDC	0.01 to 0.1	○								Ammo	() F3
		0.12 to 0.47					○				Ammo	() F3
		0.01 to 0.1	○								Reel	() F9
		0.01 to 0.1							○		Ammo	R() F
		0.12 to 0.47								○	Ammo	R() F
	630VDC	0.01 to 0.033	○								Ammo	() F3
		0.039 to 0.047				○					Ammo	() F3
		0.056 to 0.22					○				Ammo	() F3
		0.01 to 0.047	○								Reel	() F9
		0.01 to 0.047							○		Ammo	R() F
1000VDC	0.056 to 0.22							○		Ammo	R() F	
	0.001 to 0.1								○	Ammo	R() F	
1250VDC	0.001 to 0.022								○	Ammo	R() F	

● Lead Spacing

Style	Lead Spacing
AD	5.0mm
AB	5.0mm
B	5.0mm
C	5.0mm
D	7.5mm
E	7.5mm

※ See the column "Rating, Dimensions & Quantity Box" for packing quantity.

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage: 400VDC, Capacitance tolerance: ±5%(J), ±10%(K)

Part No.	Cap. (μ F)	Dimensions (mm)									Quantity.		
		L _{max.}	T _{max.}	H _{max.}		F	S	G _{max.}	ϕ d	Standard 5mm	Odd size 5mm	Odd size 7.5mm	
				Type-1	Type-2,3								
ECQE4103 F()	0.01	10.3	4.3	7.4	12.4	7.5	7.5	1.0	0.60	1,000	—	1,000	
ECQE4123 F()	0.012	10.3	4.4	7.5	12.5	7.5	7.5	1.0	0.60				
ECQE4153 F()	0.015	10.3	4.4	7.5	12.5	7.5	7.5	1.0	0.60				
ECQE4183 F()	0.018	10.3	4.4	7.5	12.5	7.5	7.5	1.0	0.60				
ECQE4223 F()	0.022	10.3	4.8	7.9	12.9	7.5	7.5	1.0	0.60				
ECQE4273 F()	0.027	10.3	5.5	8.0	13.0	7.5	7.5	1.0	0.60				
ECQE4333 F()	0.033	10.3	6.0	9.0	14.0	7.5	7.5	1.0	0.60				
ECQE4393 F()	0.039	12.0	4.9	8.0	13.0	10.0	10.0	1.0	0.60				
ECQE4473 F()	0.047	12.0	5.0	8.3	13.3	10.0	10.0	1.0	0.60				
ECQE4563 F()	0.056	12.0	5.0	10.0	15.0	10.0	10.0	1.0	0.60				
ECQE4683 F()	0.068	12.0	5.4	10.5	15.5	10.0	10.0	1.0	0.60				
ECQE4823 F()	0.082	12.0	5.8	11.0	16.0	10.0	10.0	1.0	0.60				
ECQE4104 F()	0.1	12.0	6.3	12.0	17.0	10.0	10.0	1.0	0.60				
ECQE4124 F()	0.12	18.5	5.0	10.0	15.0	15.0	10.0	1.0	0.60				
ECQE4154 F()	0.15	18.5	5.0	12.4	17.4	15.0	10.0	1.0	0.60				
ECQE4184 F()	0.18	18.5	5.4	12.5	17.5	15.0	10.0	1.0	0.60				
ECQE4224 F()	0.22	18.5	5.9	13.0	18.0	15.0	10.0	1.0	0.60				
ECQE4274 F()	0.27	18.5	6.5	14.3	19.3	15.0	10.0	1.0	0.80				
ECQE4334 F()	0.33	18.5	7.0	14.9	19.9	15.0	10.0	1.0	0.80				
ECQE4394 F()	0.39	18.5	7.5	15.4	20.4	15.0	10.0	1.0	0.80				
ECQE4474 F()	0.47	18.5	7.8	17.0	22.0	15.0	10.0	1.0	0.80				
ECQE4564 F()	0.56	26.0	6.5	16.0	21.0	22.5	15.0	1.0	0.80				
ECQE4684 F()	0.68	26.0	7.0	16.5	21.5	22.5	15.0	1.0	0.80				
ECQE4824 F()	0.82	26.0	7.9	17.3	22.3	22.5	15.0	1.0	0.80				
ECQE4105 F()	1.0	26.0	8.5	18.0	23.0	22.5	15.0	1.0	0.80				
ECQE4125 F()	1.2	26.0	9.5	18.9	23.9	22.5	15.0	1.0	0.80				
ECQE4155 F()	1.5	31.0	9.5	19.0	24.0	27.5	22.5	1.0	0.80				
ECQE4185 F()	1.8	31.0	11.0	20.5	25.5	27.5	22.5	1.5	0.80				
ECQE4225 F()	2.2	31.0	11.0	22.0	27.0	27.5	22.5	1.5	0.80				

StyleN,StyleD:0.01 to 1.0 μ F
StyleT,StyleB:0.12 to 2.2 μ F

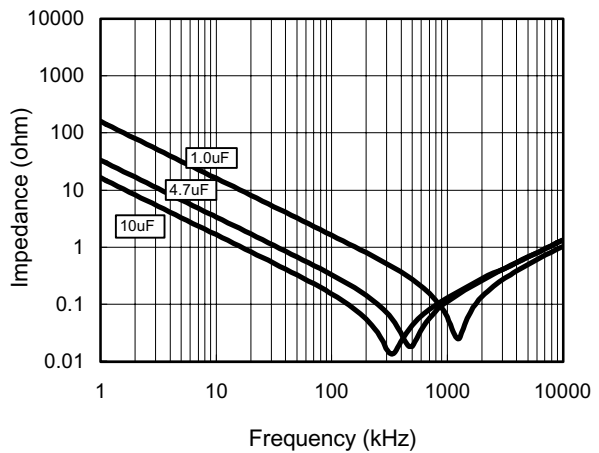
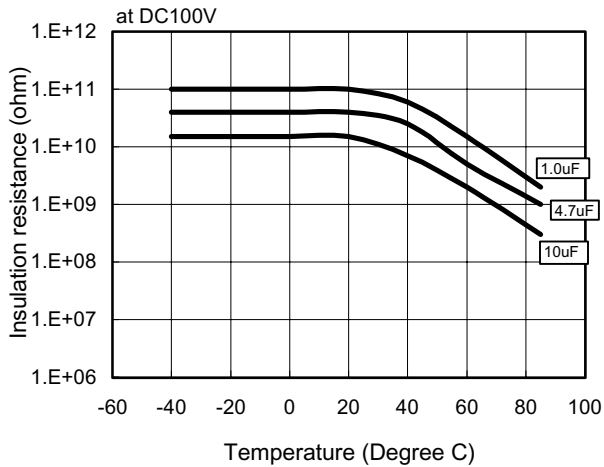
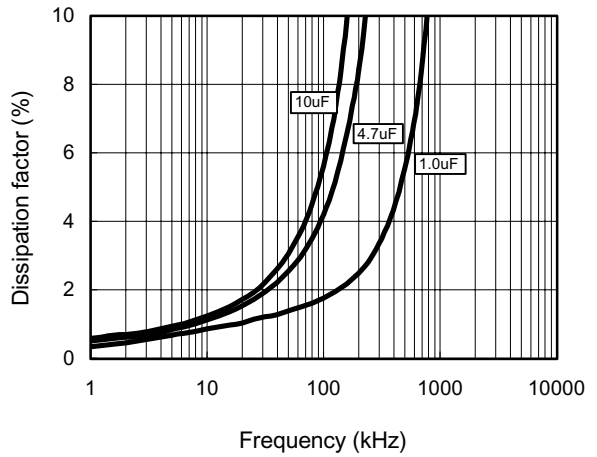
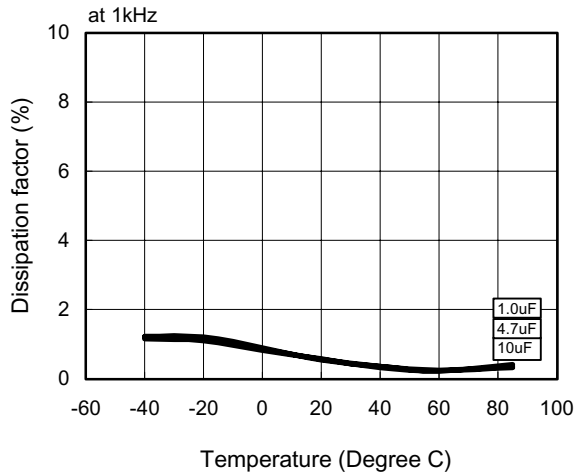
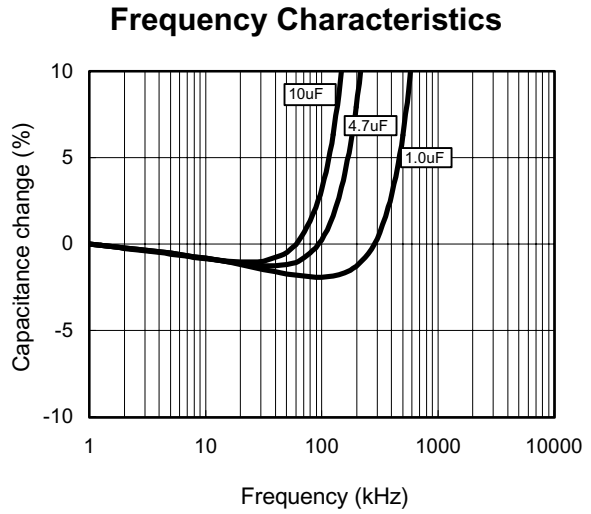
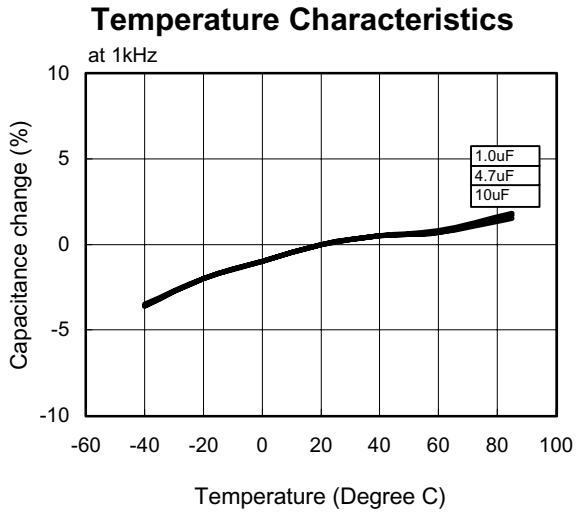
● Rated voltage: 630VDC, Capacitance tolerance: ±5%(J), ±10%(K)

Part No.	Cap. (μ F)	Dimensions (mm)									Quantity.		
		L _{max.}	T _{max.}	H _{max.}		F	S	G _{max.}	ϕ d	Standard 5mm	Odd size 5mm	Odd size 7.5mm	
				Type-1	Type-2,3								
ECQE6103 F()	0.01	12.0	4.5	7.5	12.5	10.0	10.0	1.0	0.60	1,000	—	1,000	
ECQE6123 F()	0.012	12.0	4.5	7.8	12.8	10.0	10.0	1.0	0.60				
ECQE6153 F()	0.015	12.0	5.0	8.2	13.2	10.0	10.0	1.0	0.60				
ECQE6183 F()	0.018	12.0	4.9	10.0	15.0	10.0	10.0	1.0	0.60				
ECQE6223 F()	0.022	12.0	5.3	10.5	15.5	10.0	10.0	1.0	0.60				
ECQE6273 F()	0.027	12.0	5.5	10.9	15.9	10.0	10.0	1.0	0.60				
ECQE6333 F()	0.033	12.0	6.0	11.9	16.9	10.0	10.0	1.0	0.60				
ECQE6393 F()	0.039	12.0	6.0	13.4	18.4	10.0	10.0	1.0	0.60				
ECQE6473 F()	0.047	12.0	6.5	13.5	18.5	10.0	10.0	1.0	0.60				
ECQE6563 F()	0.056	18.5	5.4	10.5	15.5	15.0	10.0	1.0	0.60				
ECQE6683 F()	0.068	18.5	5.8	11.0	16.0	15.0	10.0	1.0	0.60				
ECQE6823 F()	0.082	18.5	6.5	12.0	17.0	15.0	10.0	1.0	0.60				
ECQE6104 F()	0.1	18.5	6.3	14.0	19.0	15.0	10.0	1.0	0.60				
ECQE6124 F()	0.12	18.5	6.3	14.5	19.5	15.0	10.0	1.0	0.80				
ECQE6154 F()	0.15	18.5	7.5	15.4	20.4	15.0	10.0	1.0	0.80				
ECQE6184 F()	0.18	18.5	8.0	16.0	21.0	15.0	10.0	1.0	0.80				
ECQE6224 F()	0.22	18.5	9.0	16.5	21.5	15.0	10.0	1.0	0.80				
ECQE6274 F()	0.27	26.0	7.0	16.5	21.5	22.5	15.0	1.0	0.80				
ECQE6334 F()	0.33	26.0	7.8	17.0	22.0	22.5	15.0	1.0	0.80				
ECQE6394 F()	0.39	26.0	8.5	17.9	22.9	22.5	15.0	1.0	0.80				
ECQE6474 F()	0.47	26.0	9.3	18.5	23.5	22.5	15.0	1.0	0.80				
ECQE6564 F()	0.56	26.0	10.0	20.0	25.0	22.5	15.0	1.5	0.80				
ECQE6684 F()	0.68	26.0	11.5	21.0	26.0	22.5	15.0	1.5	0.80				
ECQE6824 F()	0.82	31.0	11.3	20.5	25.5	27.5	22.5	1.5	0.80				
ECQE6105 F()	1.0	31.0	12.5	21.9	26.9	27.5	22.5	1.5	0.80				
ECQE6125 F()	1.2	31.0	13.5	23.0	28.0	27.5	22.5	1.5	0.80				
ECQE6155 F()	1.5	31.0	15.3	24.7	29.7	27.5	22.5	1.5	0.80				
ECQE6185 F()	1.8	31.0	16.8	27.0	32.0	27.5	22.5	1.5	0.80				
ECQE6225 F()	2.2	31.0	19.5	29.0	34.0	27.5	22.5	1.5	0.80				

↑
Suffix for lead crimped or taped type
Cap. tol. code

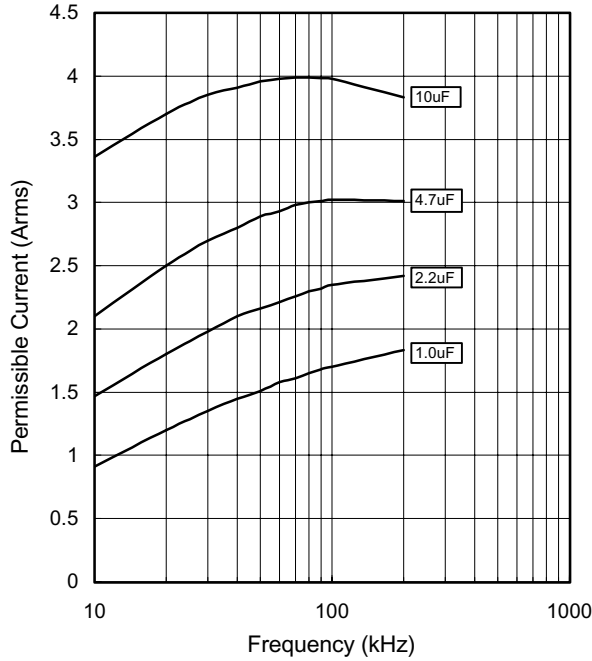
StyleN,StyleD:0.01 to 0.047 μ F
StyleT,StyleB:0.056 to 2.2 μ F

ECQE(F) Type 100VDC Series (Metallized Polyester Film) Electrical Characteristics (Typical Data)

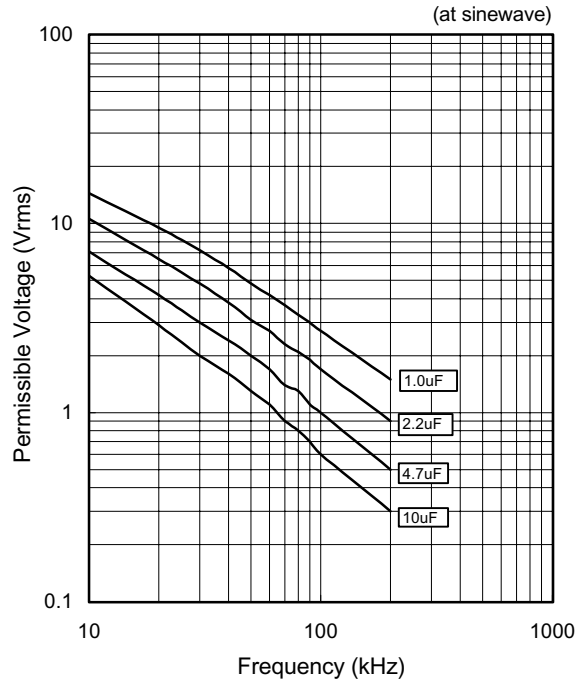


ECQE(F) Type 100VDC Series (Metallized Polyester Film) Applicable Specifications

Permissible Current



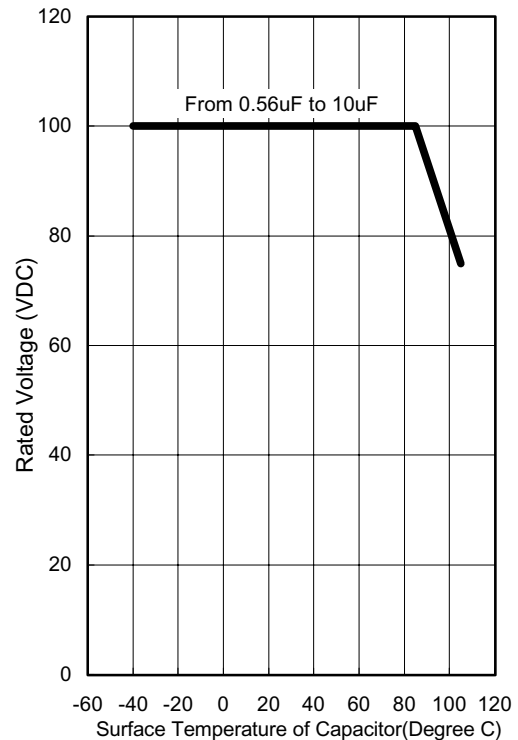
Permissible Voltage (Vrms)
(at sine wave)



Pulse Handling Capability (dV/dt)
(Max 10000 cycles)

Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
100VDC	0.56	564	22	12.32
	0.68	684		15.0
	0.82	824		18.0
	1.00	105		22.0
	1.20	125	11	13.2
	1.50	155		17.1
	1.80	185		19.8
	2.20	225	6	24.2
	2.70	275		29.7
	3.30	335		36.3
	3.90	395		23.4
	4.70	475		28.2
	5.60	565		33.6
	6.80	685		40.8
	8.20	825	49.2	
10.00	106	60.0		

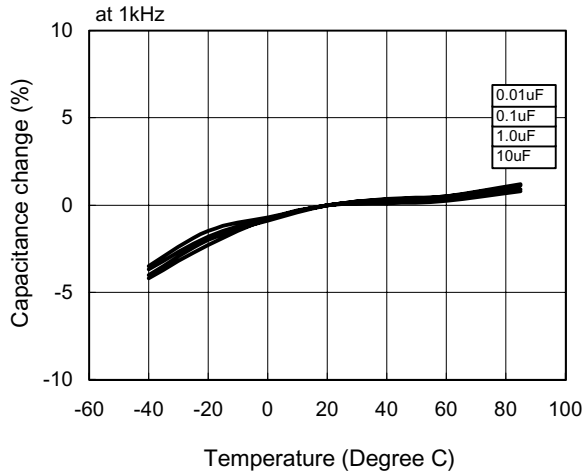
Voltage Derating by Temperature



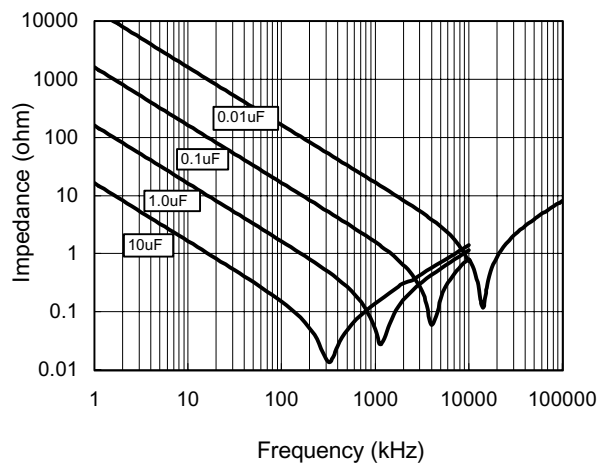
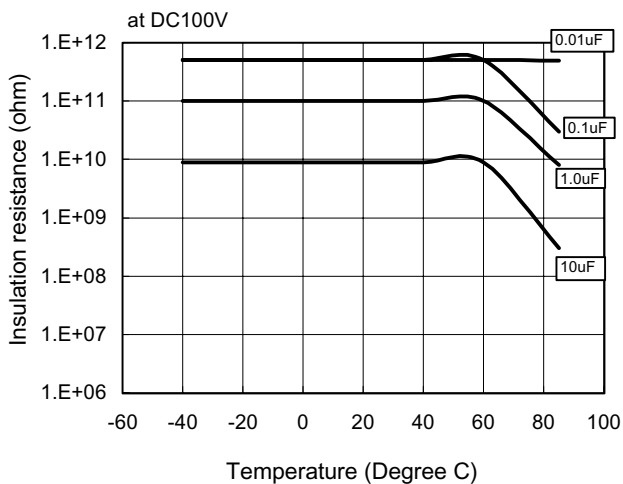
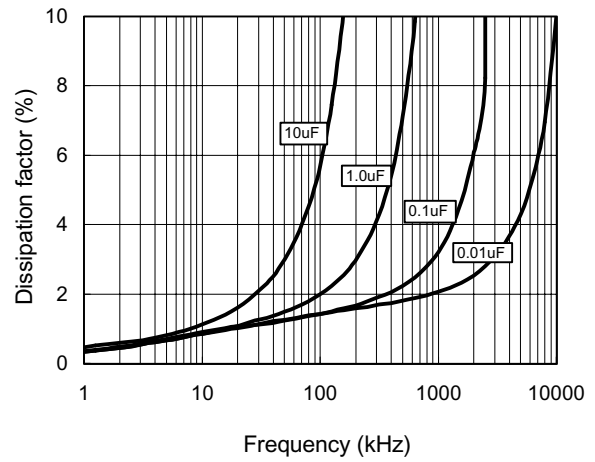
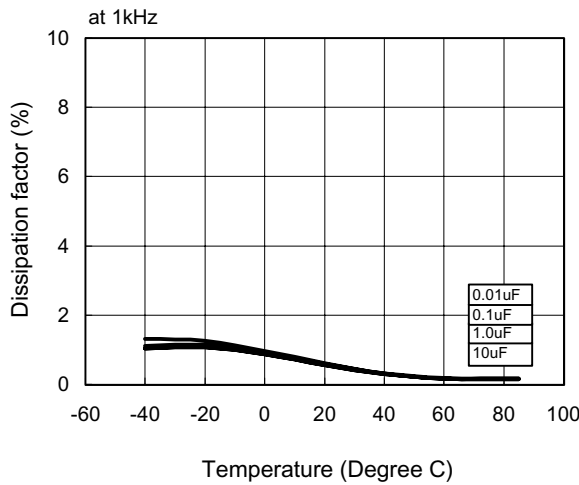
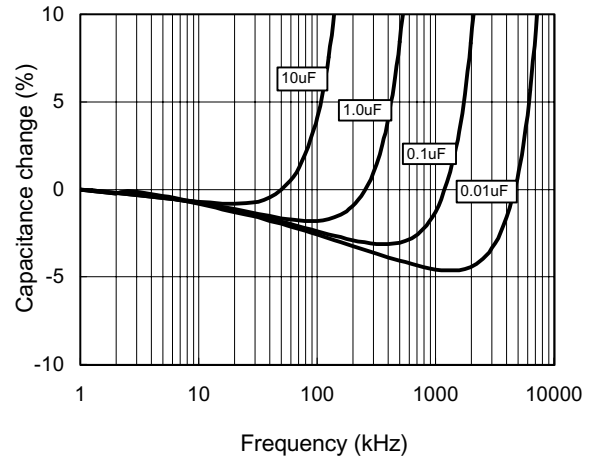
* Please consult Panasonic if your condition exceeds the above spec.

ECQE(F) Type 250VDC Series (Metallized Polyester Film) Electrical Characteristics (Typical Data)

Temperature Characteristics

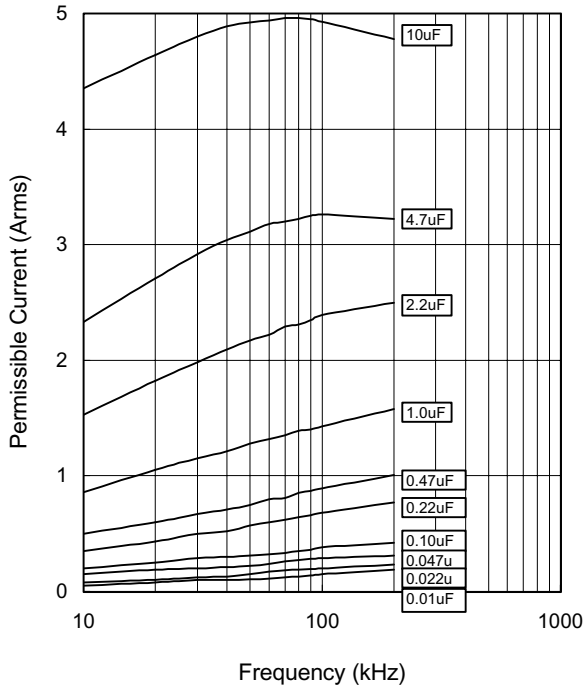


Frequency Characteristics

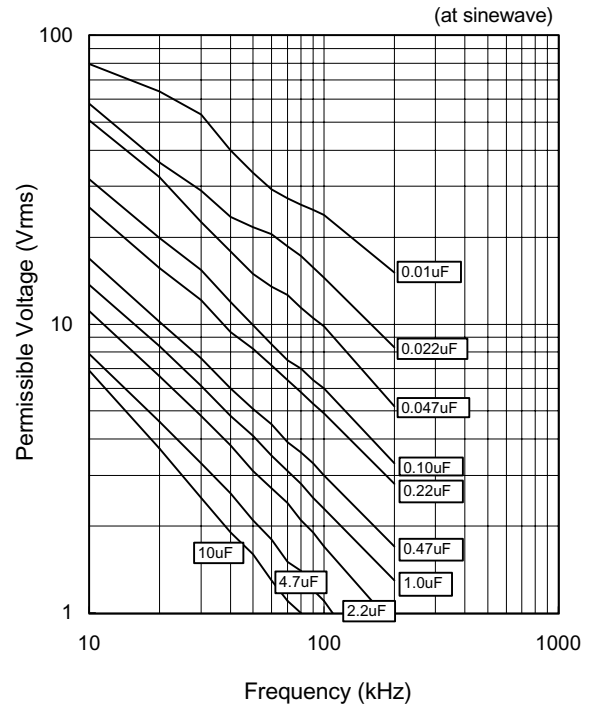


ECQE(F) Type 250VDC Series (Metallized Polyester Film) Applicable Specifications

Permissible Current



Permissible Voltage

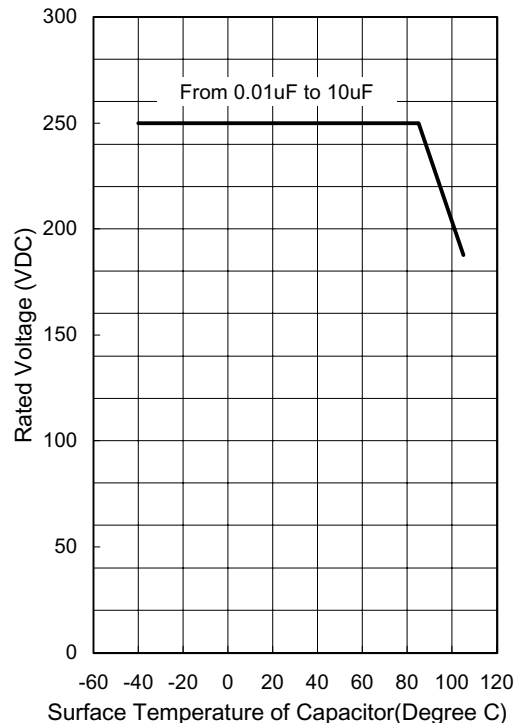


Pulse Handling Capability (dV/dt)

(Max 10000 cycles)

Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
250VDC	0.010	103	48	0.48
	0.015	153		0.72
	0.022	223		1.06
	0.033	333		1.58
	0.047	473		2.26
	0.068	683		3.26
	0.100	104		4.80
	0.150	154	33	7.20
	0.220	224		7.26
	0.330	334	18	10.89
	0.470	474		8.46
	0.680	684		12.24
	1.000	105	10	18.00
	1.500	155		27.00
	2.200	225	8	22.00
	3.300	335		33.00
	4.700	475	8	47.00
	6.800	685		54.40
10.000	106	80.00		

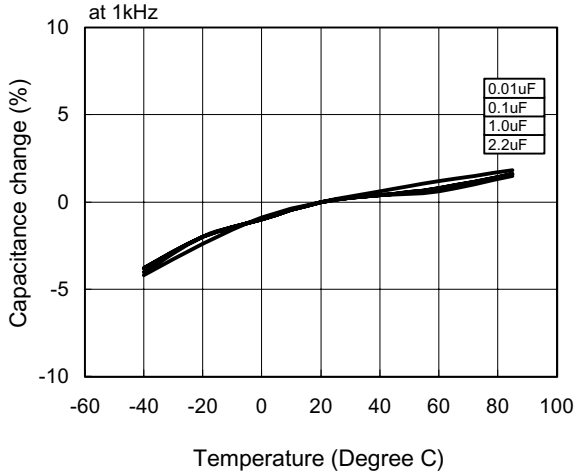
Voltage Derating by Temperature



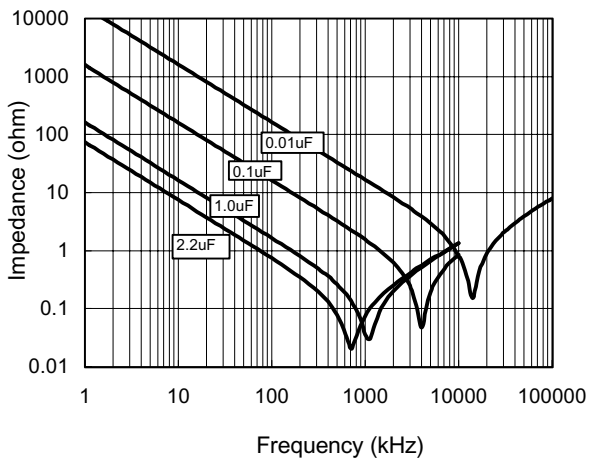
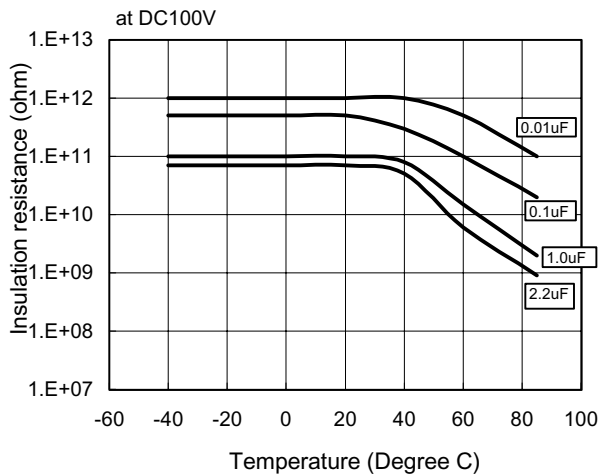
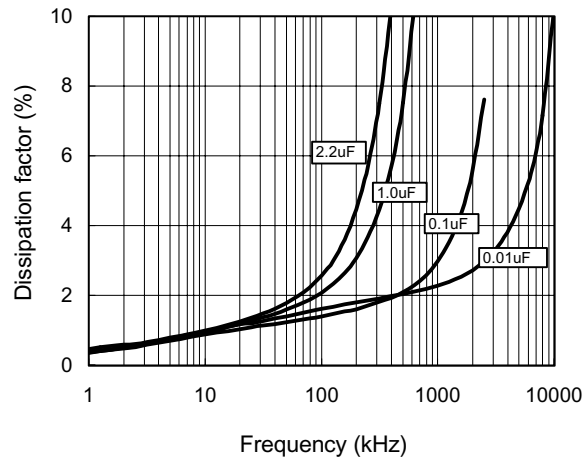
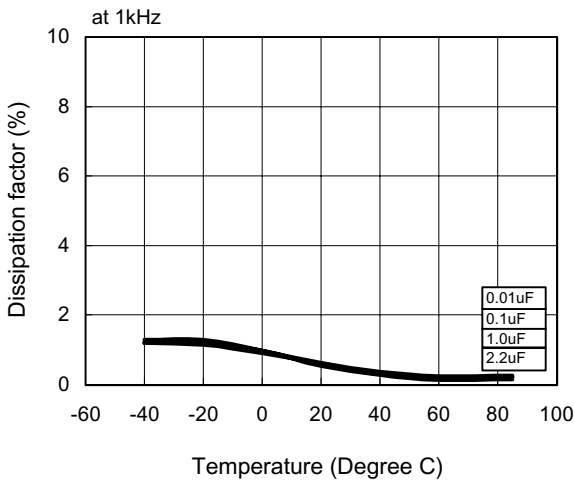
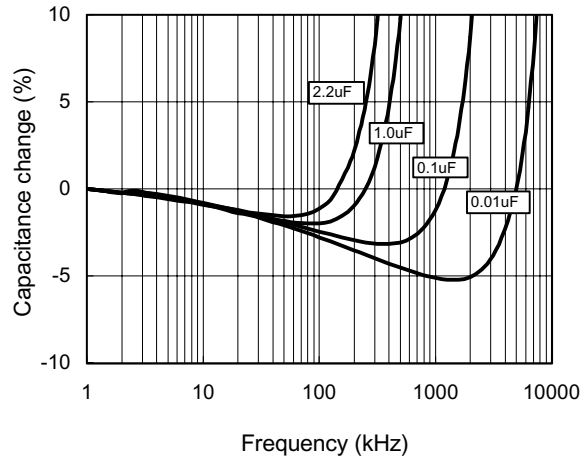
* Please consult Panasonic if your condition exceeds the above spec.

ECQE(F) Type 400VDC Series (Metallized Polyester Film) Electrical Characteristics (Typical Data)

Temperature Characteristics

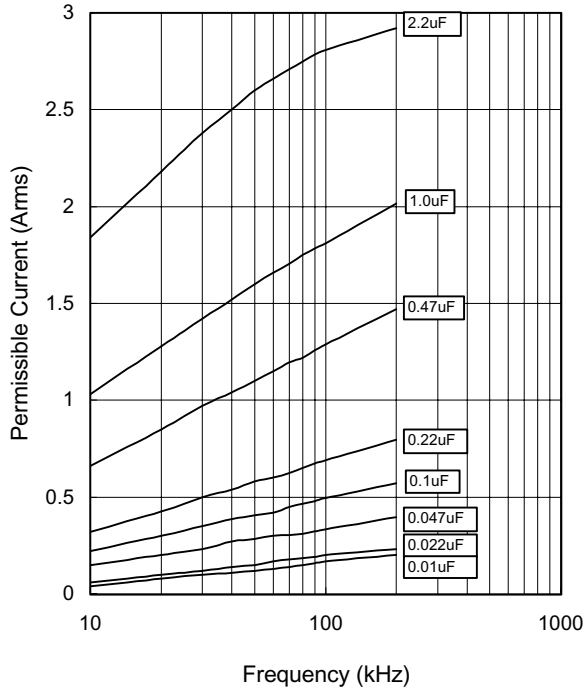


Frequency Characteristics

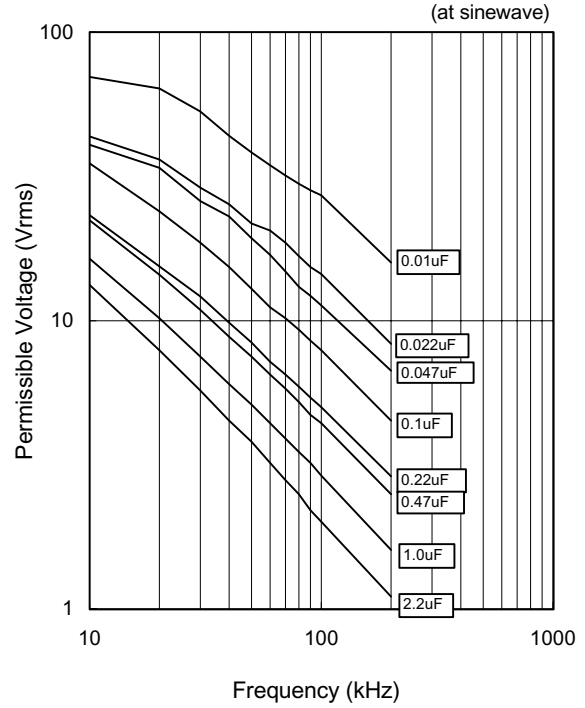


ECQE(F) Type 400VDC Series (Metallized Polyester Film) Applicable Specifications

Permissible Current



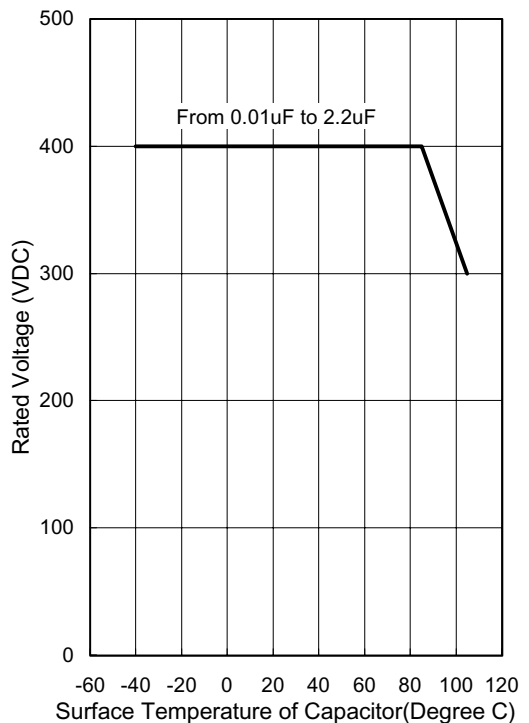
Permissible Voltage



Pulse Handling Capability (dV/dt)
(Max 10000 cycles)

Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
400VDC	0.010	103	131	1.31
	0.015	153		1.97
	0.022	223		2.88
	0.033	333		4.32
	0.047	473	78	3.67
	0.068	683		5.30
	0.100	104		7.80
	0.150	154	37	5.55
	0.220	224		8.14
	0.330	334		12.21
	0.470	474	22	17.39
	0.680	684		14.96
	1.000	105	18	22.00
	1.200	155		27.00
2.200	225	39.60		

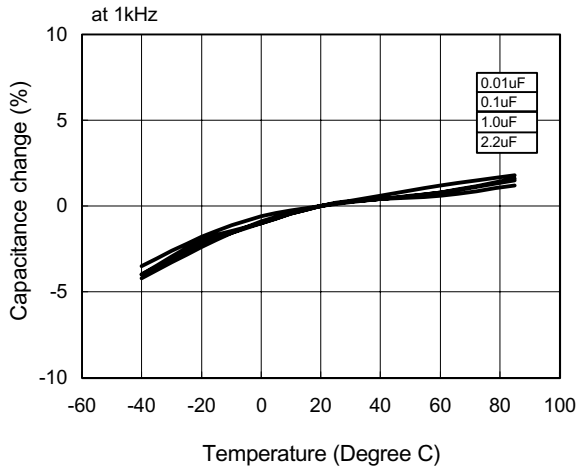
Voltage Derating by Temperature



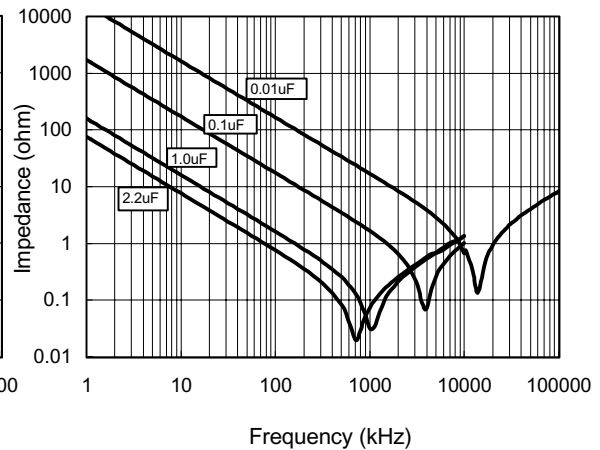
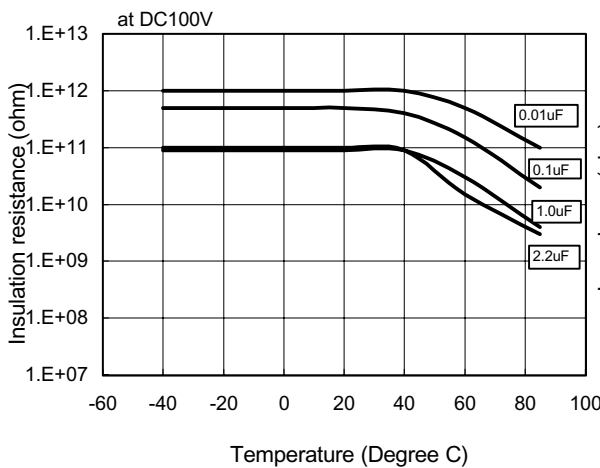
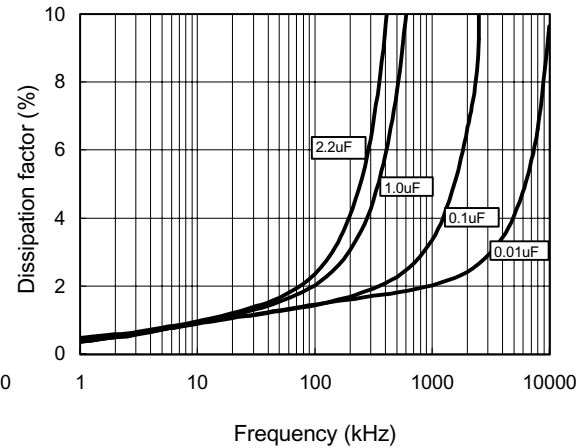
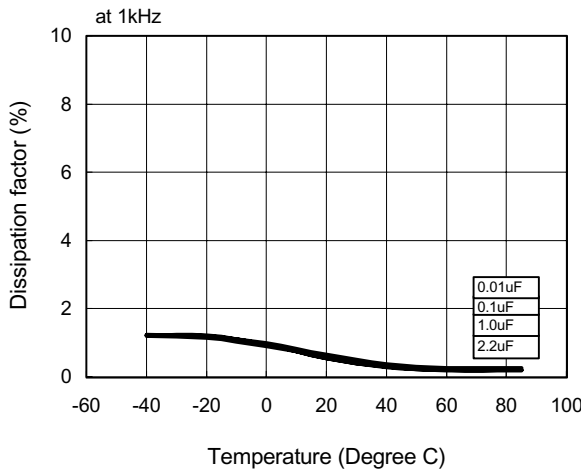
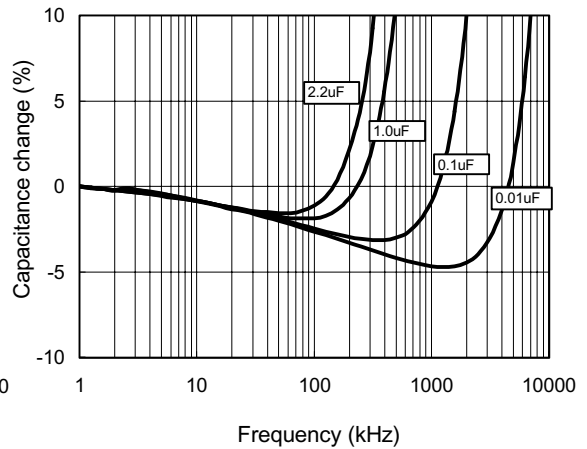
* Please consult Panasonic if your condition exceeds the above spec.

ECQE(F) Type 630VDC Series (Metallized Polyester Film) Electrical Characteristics (Typical Data)

Temperature Characteristics



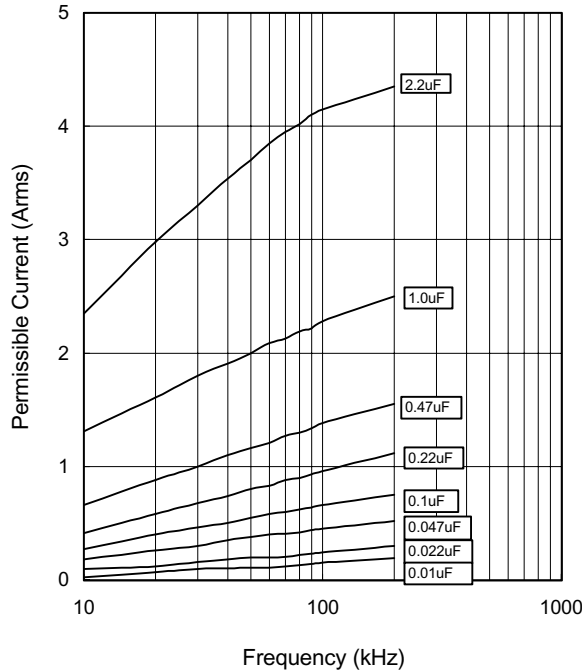
Frequency Characteristics



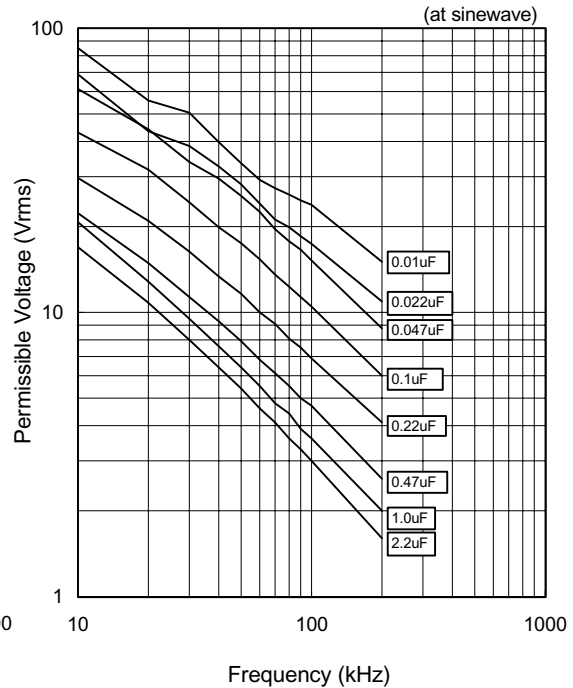
ECQE(F) Type 630VDC Series (Metallized Polyester Film)

Applicable Specifications

Permissible Current



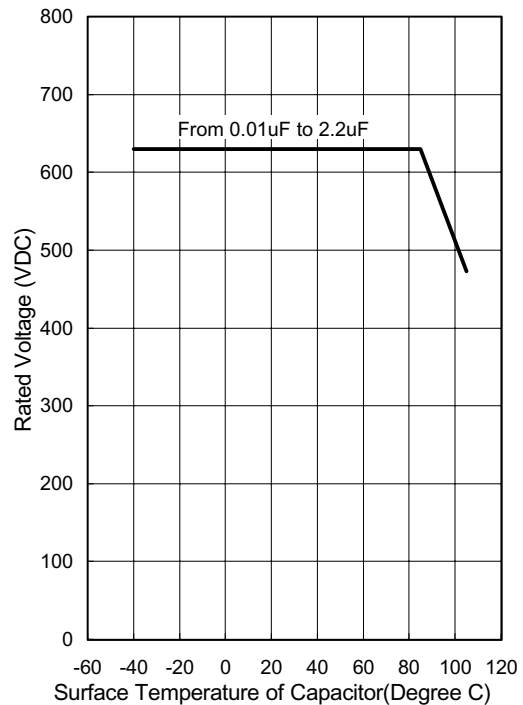
Permissible Voltage



Pulse Handling Capability (dV/dt)
(Max 10000 cycles)

Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
630VDC	0.010	103	273	2.73
	0.015	153		4.10
	0.022	223		6.01
	0.033	333		9.01
	0.047	473		12.83
	0.068	683	116	7.89
	0.100	104		11.60
	0.150	154		17.40
	0.220	224	63	25.52
	0.330	334		20.79
	0.470	474	63	29.61
	0.680	684		42.84
	1.000	105	48	48.00
	1.500	155		72.00
2.200	225	105.60		

Voltage Derating by Temperature



* Please consult Panasonic if your condition exceeds the above spec.