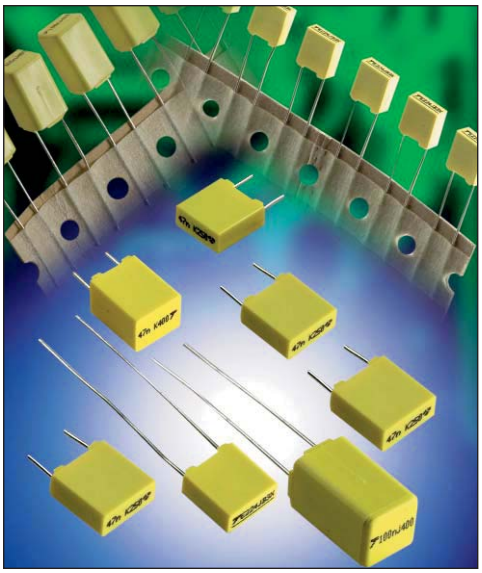
BF 01/02/07/06/05/04: Radial Leads

BQ 01/02/07/06/05/04: Lead Free

CPM-83----- pitch = 5.08mm (0.200")



GENERAL DESCRIPTION

Dielectric: Metallized polyester film (Polyethylene teraphtalate)

Stacked-film

Leads: Radial tin - plated wire

Protection: Plastic case (UL 94: V-O) / Epoxy Resin

Marking: Logo
Nominal Capacitance
Tolerance (EIA)
DC Nominal Voltage
Example: **T 100nK 63**

Delivery Mode: Bulk
Taped (reel or ammopack)

STANDARDIZATION

Generic specifications:
CEI 384-1/CECC 30000

Sectional specifications:
CEI 384-2/CECC 30400

Complies with special specification:
CECC 30401-069

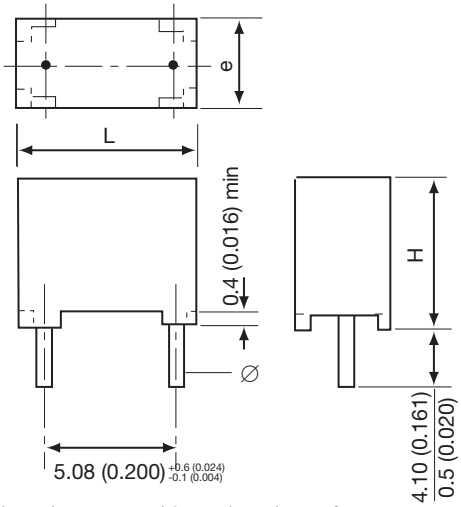
APPLICATIONS

- Commodity Product:
  - Supply decoupling
  - Filter
  - Integrators
  - Treatment of analog signals
  - Rejection of line perturbations, etc.

DIMENSIONS

millimeters (inches)

Case	L max	H max	e max	ø ± 0.02
01	7.5 (0.295)	6.5 (0.256)	2.5 (0.098)	0.5 (0.020)
02	7.5 (0.295)	8.0 (0.315)	3.2 (0.126)	0.5 (0.020)
05	7.5 (0.295)	12.0 (0.472)	6.0 (0.236)	0.5 (0.020)
06	7.5 (0.295)	9.6 (0.378)	6.0 (0.236)	0.5 (0.020)
07	7.5 (0.295)	8.0 (0.315)	5.0 (0.197)	0.5 (0.020)
04	7.5 (0.295)	13.0 (0.512)	7.5 (0.295)	0.5 (0.020)



*L dimension measured 3mm above base of case

HOW TO ORDER

BF01 or BQ01	4	D	0104	K	- -
Type	Class	Voltage	Capacitance	Tolerance	Suffix

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PERFORMANCE CHARACTERISTICS

Climatic Category	55/100/56 Performance Class 2
Capacitance Range	C_R 1nF to 2.2µF (E12)
Tolerance on C_R	±5%; ±10% (other values on request)
Nominal Voltages	VR_ 63/100/250/400/630V VR~ 40/63/160/200/220V
Category Voltage	Vc = 0.8V_{R-} at 100°C
Test Voltage	Ve = 1.6V_{R-}/2s at 25°C

• Tangent of Loss Angle: D.F.

Measurement Frequency	Capacitance	DF: Performance Category 2
1kHz	C_R ≤ 1µF	≤ 1.0%
100 Hz	C_R> 1µF	≤ 1.0%

• Insulation Resistance: IR

Measuring Points	C_R <= 0.33µF		C_R > 0.33µF	
	IR min (GΩ)		IR * C_R min (MΩ * µF)	
	Performance Class 2		Performance Class 2	
Between Terminals	V_{R-} ≤ 100V	V_{R-} > 100V	V_{R-} ≤ 100V	V_{R-} > 100V
	3.75	7.5	1.25	2.5
Between Terminals and Ground	≥ 30,000 Ω			

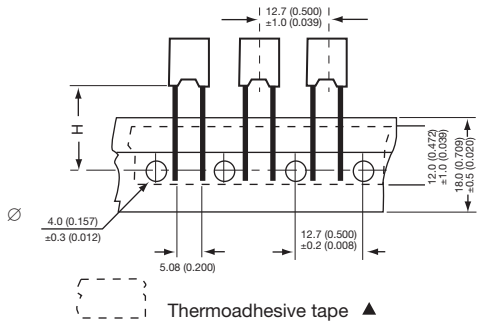
• Max voltage gradient

V_{R-}	63	100	250	400	630
$(dv/dt)_R$ max	38	100	250	400	630

PACKAGING

millimeters (inches)

	Panasert	Avisert
H	16.5 ± 0.50 (0.65 ± 0.020)	19.5 ± 0.50 (0.768 ± 0.020)



(Other sizes according to standard CEI : 286-2)
Dimensions: millimeters (inches)

Case	Quantity					
	Reel		Ammopack		Bulk	
Suffix x	DB panasert	DD avisert	DA panasert	DC avisert	USA Std.	- - Europe / Asia Std.
01	2500		2500		1000	5000
02	1800		2000		1000	3800
07	1200		1250		1000	2500
06	900		1100		1000	1500
05	900		1100		1000	1500
04	750		750		1000	1000

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CAPACITANCE VALUES (C_R) and NOMINAL VOLTAGES (V_R)

Capacitance Range (C_R)	Reference BF or BQ V_{R-} / $V_{R\sim}$				
	63/40 (voltage code: D)	100/63 (voltage code: E)	250/160 (voltage code: G)	400/200 (voltage code: I)	630/230 (voltage code: K)
1,000 pF	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01
1,200	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	
1,500	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF02 or BQ02
1,800	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	
2,200 pF	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF02 or BQ02
2,700	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	
3,300	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF07 or BQ07
3,900	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	
4,700 pF	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF07 or BQ07
5,600	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	
6,800	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF06 or BQ06
8,200	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	
10,000 pF	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF05 or BQ05
12,000	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF02/****BF01 or BQ02/****BQ01	
15,000	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF02/****BF01 or BQ02/****BQ01	
18,000	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF02/****BF01 or BQ02/****BQ01	
22,000	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF02 or BQ02	
27,000	BF01 or BQ01	BF01 or BQ01	BF01 or BQ01	BF07/****BF02 or BQ07/****BQ02	BF05 or BQ05
33,000	BF01 or BQ01	BF01 or BQ01	BF02 or BQ02	BF07/****BF02 or BQ07/****BQ02	BF05 or BQ05
39,000	BF01 or BQ01	BF01 or BQ01	BF02/****BF01 or BQ02/****BQ01	BF07 or BQ07	
47,000 pF	BF01 or BQ01	BF01 or BQ01	BF02 or BQ02	BF06 or BQ06	
56,000	BF01 or BQ01	BF01 or BQ01	BF07 or BQ07		
68,000	BF01 or BQ01	BF01 or BQ01	BF07 or BQ07		
82,000	BF01 or BQ01	BF01 or BQ01	BF07 or BQ07		
100 nF	BF01 or BQ01	BF01 or BQ01	BF07 or BQ07		
120	BF01 or BQ01	BF01 or BQ01	BF06/****BF07 or BQ06/****BQ07		
150	BF01 or BQ01	BF01 or BQ01	BF06 or BQ06		
180	BF01 or BQ01	BF02 or BQ02			
220 nF	BF01 or BQ01	BF02 or BQ02	BF05 or BQ05		
270	BF02 or BQ02	BF07/****BF02 or BQ07/****BQ02			
330	BF02/****BF01 or BQ02/****BQ01	BF07 or BQ07			
390	BF02 or BQ02	BF07 or BQ07			
470 nF	BF02 or BQ02	BF07 or BQ07			
560	BF07 or BQ07	BF05/****BF06 or BQ05/****BQ06			
680	BF07 or BQ07	BF05/****BF06 or BQ05/****BQ06			
820	BF07 or BQ07	BF05/****BF06 or BQ05/****BQ06			
1 µF	BF07 or BQ07	BF05 or BQ05			
1.5 µF	BF05* or BQ05*				
2.2 µF	BF05** or BQ05**				

*Upon request - **no change**

Upon request & only available 50 V (V_R) - **no change

****New Case size reduction: BF02 to BF 01, BF07 to BF02, BF06 to BF07, BF04 to BF05, BF05 to BF06

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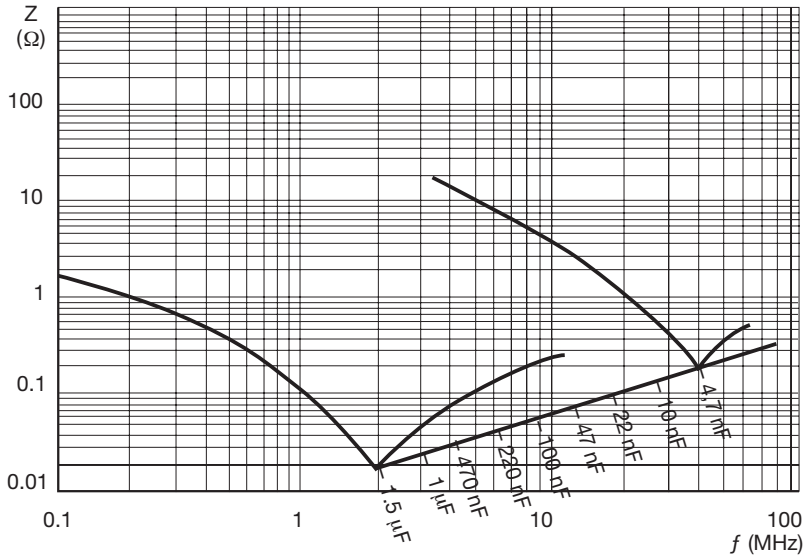
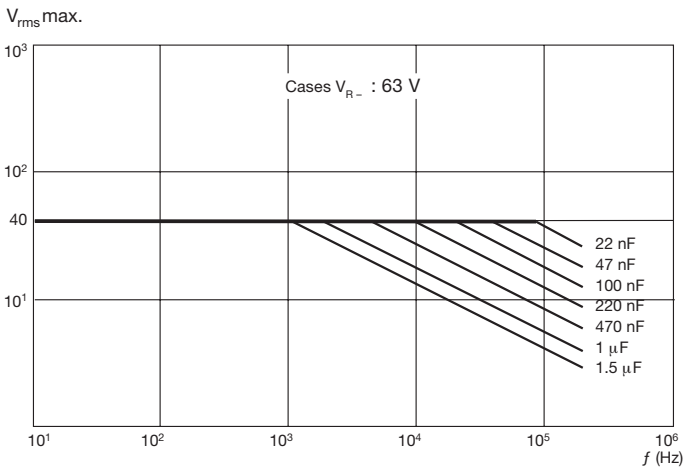
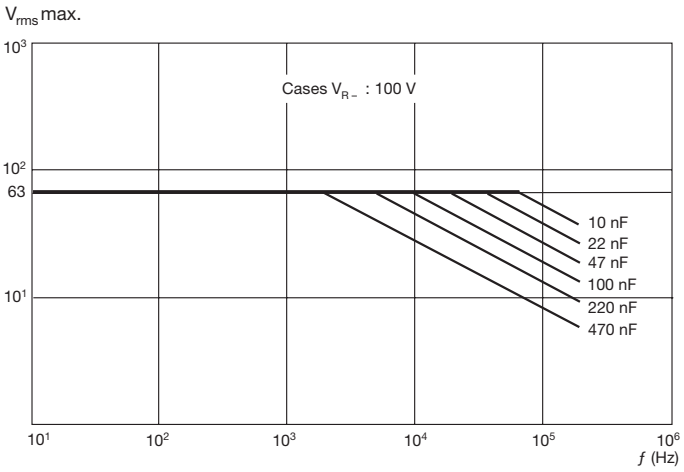
CHARACTERISTICS CURVES

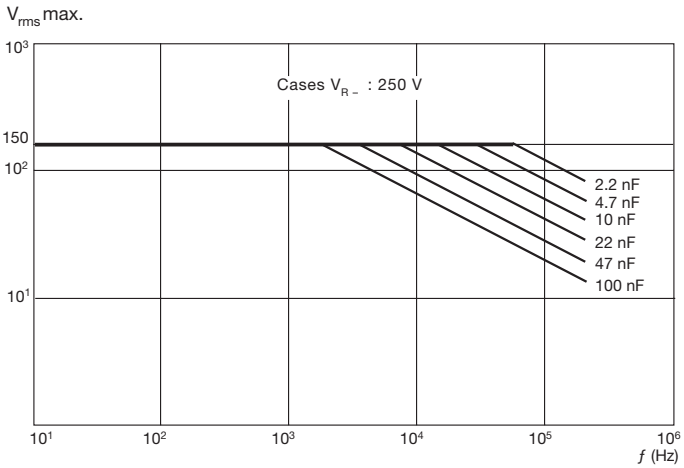
Influence of the frequency on the impedance (room temperature).

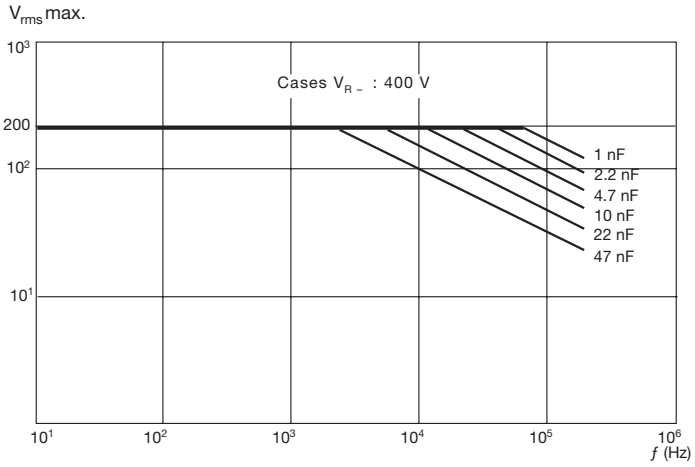


Nominal RMS voltage vs. frequency (room temperature) allowing a 10°C increase of the external temperature of the box.









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