

Type DE

Voltage Range	1kV - 6.3kV
Capacitance Range	22pF - 0.01μF

A wide range of resin coated, miniature disc ceramic capacitors for high voltage applications. Offers a choice of maximum operating voltage, from 1kV to 6.3kV, in a variety of popular values. The range includes the HR series of 1kV capacitors with an extended temperature range, which are ideally suited for snubber circuits. An option of loose or taped and boxed product is provided on most values. **Note that these devices are not suitable for mains suppression use.**



- ◆ Miniature disc sizes
- ◆ Ratings from **1kV to 6.3kV**
- ◆ Flame retardant epoxy resin coating
- ◆ Suitable for high density mounting
- ◆ Option of loose or taped & boxed
- ◆ Body colour **Blue**

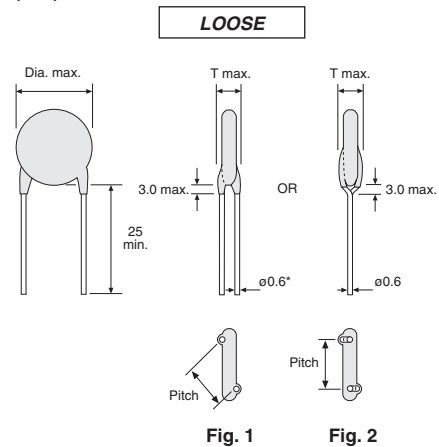
Specification

Working voltage	DC (as listed)
Capacitance tolerance] see Dielectric Classifications below
Temperature coefficient	
Operating temperature range	-25°C to +85°C
	HR series -25°C to +125°C
Insulation resistance	≥10,000MΩ
Dissipation factor	B & E dielectric ≤2.5% at 1kHz, 5Vrms
	F dielectric ≤5.0% at 1kHz, 5Vrms
	R dielectric ≤0.2% at 1kHz, 5Vrms
	SL dielectric C <22pF :Q ≥400 +20C
	C ≥47pF :Q ≥1000
Dielectric strength	2 x working voltage (5 sec)

Dielectric Classifications

CODE	TYPE	TOLERANCE	TEMP. COEFF.
B	MED K	±10%	±10% over -25°C to +85°C
E	HIGH K	-20,+80%	+20%, -55% over -25°C to +85°C
F	HIGH K	-20,+80%	+30%, -80% over -25°C to +85°C
R	MED K	±10%	±15% over -25°C to +85°C, +15%, -30% over +85°C to +125°C
SL	LOW K	±5%	+350 to 1000ppm°C

Dimensions (mm)



For body dimensions Dia. max. and T max., refer to table on opposite page
*Lead dia. 0.5 when body dia. ≤5 (loose parts only)

TAPED & BOXED

Fig. 3

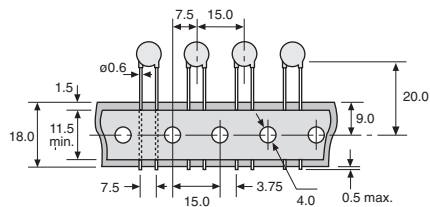


Fig. 4

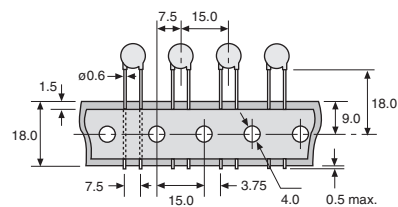


Fig. 5

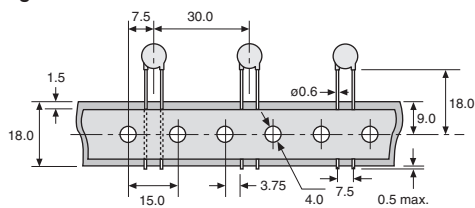
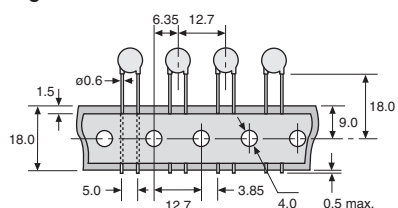


Fig. 6



1kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.
		Dia. max.	T max.		
100	B	4.5	4.0	5.0	1
150	B	4.5	4.0	5.0	1
220	B	4.5	4.0	5.0	1
330	B	4.5	4.0	5.0	1
470	B	5.0	4.0	5.0	1
680	B	6.0	4.0	5.0	2
1000	B	6.0	4.0	5.0	2
1000	E	5.0	4.0	5.0	1
1500	B	8.0	4.0	5.0	2
2200	F	6.0	4.0	5.0	2
3300	B	10.0	4.0	5.0	2
4700	F	7.0	4.0	5.0	2
4700	B	12.0	4.0	7.5	2
6800	B	15.0	4.0	7.5	2
(μF)					
0.01	F	10.0	4.0	5.0	2
0.01	E	13.0	4.0	7.5	2

Murata Part No. & Anglia Order Code Loose

DEBB33A101KC1B
DEBB33A151KC1B
DEBB33A221KC1B
DEBB33A331KC1B
DEBB33A471KC1B
DEBB33A681KA2B
DEBB33A102KA2B
DEBE33A102ZC1B
DEBB33A152KA2B
DEBF33A222ZA2B
DEBB33A332KA2B
DEBF33A472ZA2B
DEBB33A472KA3B
DEBB33A682KA3B

Murata Part No. & Anglia Order Code Taped

DEBB33A101KP2A
DEBB33A151KP2A
DEBB33A221KP2A
DEBB33A331KP2A
DEBB33A471KP2A
DEBB33A681KN2A
DEBB33A102KN2A
DEBE33A102ZP2A
DEBB33A152KN2A
DEBF33A222ZN2A
DEBB33A332KN2A
DEBF33A472ZN2A
DEBB33A472KN3A
DEBB33A682KN7A
DEBF33A103ZN2A
DEBE33A103ZN3A

1kV (HR) For switching power supply snubber circuits

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.
		Dia. max.	T max.		
47	SL	4.5	4.0	5.0	1
100	SL	6.0	4.0	5.0	2
150	SL	7.0	4.5	5.0	2
220	SL	8.0	4.5	5.0	2
330	R	7.0	4.5	5.0	2
470	R	7.0	4.5	5.0	2
680	R	8.0	4.5	5.0	2
1000	R	9.0	4.5	5.0	2
1500	R	11.0	4.5	5.0	2
2200	R	13.0	4.5	7.5	2
3300	R	15.0	4.5	7.5	2
4700	R	17.0	4.5	7.5	2

Murata Part No. & Anglia Order Code Loose

DEA1X3A470JC1B
DEA1X3A101JA2B
DEA1X3A151JA2B
DEA1X3A221JA2B
DEHR33A331KA2B
DEHR33A471KA2B
DEHR33A681KA2B
DEHR33A102KA2B
DEHR33A152KA2B
DEHR33A222KA3B
DEHR33A332KA3B
DEHR33A472KA3B

Murata Part No. & Anglia Order Code Taped

DEA1X3A470JP2A
DEA1X3A101JN2A
DEA1X3A151JN2A
DEA1X3A221JN2A
DEHR33A331KN2A
DEHR33A471KN2A
DEHR33A681KN2A
DEHR33A102KN2A
DEHR33A152KN2A
DEHR33A222KN3A
DEHR33A332KN7A
DEHR33A472KN7A

2kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.
		Dia. max.	T max.		
100	B	4.5	5.0	5.0	1
150	B	4.5	5.0	5.0	1
220	B	4.5	5.0	5.0	1
330	B	5.0	5.0	5.0	1
470	B	6.0	5.0	5.0	2
680	B	7.0	5.0	5.0	2
1000	B	8.0	5.0	5.0	2
2200	E	8.0	5.0	5.0	2
2200	F	9.0	5.0	5.0	2
3300	B	12.0	5.0	7.5	2
4700	F	9.0	5.0	5.0	2
4700	B	15.0	5.0	7.5	2
(μF)					
0.01	F	12.0	5.0	5.0	2
0.01	F	12.0	5.0	7.5	2

Murata Part No. & Anglia Order Code Loose

DEBB33D101KC1B
DEBB33D151KC1B
DEBB33D221KC1B
DEBB33D331KC1B
DEBB33D471KA2B
DEBB33D681KA2B
DEBB33D102KA2B
DEBE33D222ZA2B
DEBF33D222ZA2B
DEBB33D332KA3B
DEBF33D472ZA2B
DEBB33D472KA3B

Murata Part No. & Anglia Order Code Taped

DEBB33D101KP2A
DEBB33D151KP2A
DEBB33D221KP2A
DEBB33D331KP2A
DEBB33D471KN2A
DEBB33D681KN2A
DEBB33D102KN2A
DEBE33D222ZN2A
DEBF33D222ZN2A
DEBB33D332KN3A
DEBF33D472ZN2A
DEBB33D472KN7A

3.15kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.
		Dia. max.	T max.		
100	B	5.0	6.0	7.5	1
220	B	5.0	6.0	7.5	1
470	B	7.0	6.0	7.5	1
680	B	8.0	6.0	7.5	2
1000	E	7.0	6.0	7.5	1
1500	B	11.0	6.0	7.5	2
2200	E	10.0	6.0	7.5	2
3300	B	15.0	6.0	7.5	2
4700	E	13.0	6.0	7.5	2

Murata Part No. & Anglia Order Code Loose

DEBB33F101KCDB
DEBB33F221KCDB
DEBB33F471KC3B
DEBB33F681KA3B
DEBE33F102ZC3B
DEBB33F152KA3B
DEBE33F222ZA3B
DEBB33F332KA3B
DEBE33F472ZA3B

Murata Part No. & Anglia Order Code Taped

DEBB33F101KP3A
DEBB33F221KP3A
DEBB33F471KP3A
DEBB33F681KN3A
DEBE33F102ZP3A
DEBB33F152KN3A
DEBE33F222ZN3A
DEBB33F332KN7A
DEBE33F472ZN3A

6.3kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.
		Dia. max.	T max.		
22	SL	9.0	7.0	10.0	1
47	SL	9.0	7.0	10.0	1
68	SL	12.0	7.0	10.0	1
82	SL	12.0	7.0	10.0	1
100	SL	13.0	7.0	10.0	1
120	SL	14.0	7.0	10.0	1
150	SL	15.0	7.0	10.0	1
220	B	9.0	7.0	10.0	1
330	B	9.0	7.0	10.0	1
470	B	10.0	7.0	10.0	1
680	B	11.0	7.0	10.0	1
1000	E	11.0	7.0	10.0	1
2200	E	15.0	7.0	10.0	1

Murata Part No. & Anglia Order Code Loose

DEC1X3J220JC4B
DEC1X3J470JC4B
DEC1X3J680JC4B
DEC1X3J820JC4B
DEC1X3J101JC4B
DEC1X3J121JC4B
DEC1X3J151JC4B
DECB33J221KC4B
DECB33J331KC4B
DECB33J471KC4B
DECB33J681KC4B
DECE33J102ZC4B
DECE33J222ZC4B



Other capacitor values and tolerances available to special order

Please contact our Sales Desk for details

