

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**

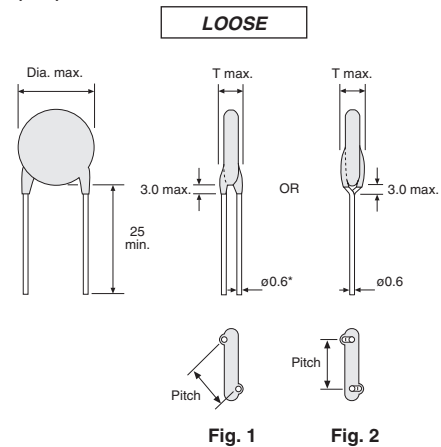
Specification

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

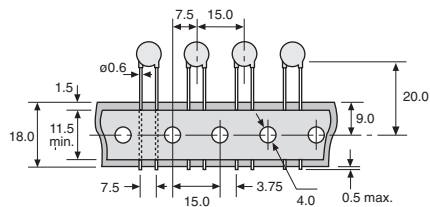


Fig. 4

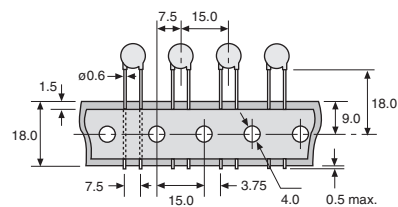


Fig. 5

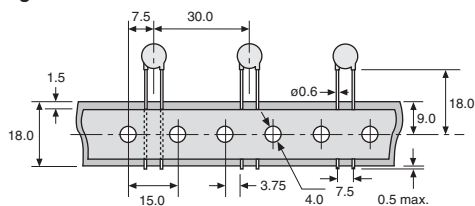
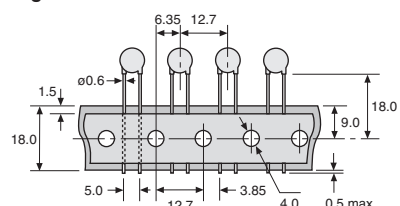


Fig. 6



1kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.	Murata Part No. & Anglia Order Code Loose	Fig.	Murata Part No. & Anglia Order Code Taped
		Dia. max.	T max.					
100	B	4.5	4.0	5.0	1	DEBB33A101KC1B	1 + 6	DEBB33A101KP2A
150	B	4.5	4.0	5.0	1	DEBB33A151KC1B	1 + 6	DEBB33A151KP2A
220	B	4.5	4.0	5.0	1	DEBB33A221KC1B	1 + 6	DEBB33A221KP2A
330	B	4.5	4.0	5.0	1	DEBB33A331KC1B	1 + 6	DEBB33A331KP2A
470	B	5.0	4.0	5.0	1	DEBB33A471KC1B	1 + 6	DEBB33A471KP2A
680	B	6.0	4.0	5.0	2	DEBB33A681KA2B	2 + 6	DEBB33A681KN2A
1000	B	6.0	4.0	5.0	2	DEBB33A102KA2B	2 + 6	DEBB33A102KN2A
1000	E	5.0	4.0	5.0	1	DEBE33A102ZC1B	1 + 6	DEBE33A102ZP2A
1500	B	8.0	4.0	5.0	2	DEBB33A152KA2B	2 + 6	DEBB33A152KN2A
2200	F	6.0	4.0	5.0	2	DEBF33A222ZA2B	2 + 6	DEBF33A222ZN2A
3300	B	10.0	4.0	5.0	2	DEBB33A332KA2B	2 + 6	DEBB33A332KN2A
4700	F	7.0	4.0	5.0	2	DEBF33A472ZA2B	2 + 6	DEBF33A472ZN2A
4700	B	12.0	4.0	7.5	2	DEBB33A472KA3B	2 + 4	DEBB33A472KN3A
6800	B	15.0	4.0	7.5	2	DEBB33A682KA3B	2 + 5	DEBB33A682KN7A
(µF)								
0.01	F	10.0	4.0	5.0	2	DEBF33A103ZA2B	2 + 6	DEBF33A103ZN2A
0.01	E	13.0	4.0	7.5	2	DEBE33A103ZA3B	2 + 4	DEBE33A103ZN3A

1kV (HR) For switching power supply snubber circuits

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.	Murata Part No. & Anglia Order Code Loose	Fig.	Murata Part No. & Anglia Order Code Taped
		Dia. max.	T max.					
47	SL	4.5	4.0	5.0	1	DEA1X3A470JC1B	1 + 6	DEA1X3A470JP2A
100	SL	6.0	4.0	5.0	2	DEA1X3A101JA2B	2 + 6	DEA1X3A101JN2A
150	SL	7.0	4.5	5.0	2	DEA1X3A151JA2B	2 + 6	DEA1X3A151JN2A
220	SL	8.0	4.5	5.0	2	DEA1X3A221JA2B	2 + 6	DEA1X3A221JN2A
330	R	7.0	4.5	5.0	2	DEHR33A331KA2B	2 + 6	DEHR33A331KN2A
470	R	7.0	4.5	5.0	2	DEHR33A471KA2B	2 + 6	DEHR33A471KN2A
680	R	8.0	4.5	5.0	2	DEHR33A681KA2B	2 + 6	DEHR33A681KN2A
1000	R	9.0	4.5	5.0	2	DEHR33A102KA2B	2 + 6	DEHR33A102KN2A
1500	R	11.0	4.5	5.0	2	DEHR33A152KA2B	2 + 6	DEHR33A152KN2A
2200	R	13.0	4.5	7.5	2	DEHR33A222KA3B	2 + 4	DEHR33A222KN3A
3300	R	15.0	4.5	7.5	2	DEHR33A332KA3B	2 + 5	DEHR33A332KN7A
4700	R	17.0	4.5	7.5	2	DEHR33A472KA3B	2 + 5	DEHR33A472KN7A

2kV For general purpose use


Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.	Murata Part No. & Anglia Order Code Loose	Fig.	Murata Part No. & Anglia Order Code Taped
		Dia. max.	T max.					
100	B	4.5	5.0	5.0	1	DEBB33D101KC1B	1 + 6	DEBB33D101KP2A
150	B	4.5	5.0	5.0	1	DEBB33D151KC1B	1 + 6	DEBB33D151KP2A
220	B	4.5	5.0	5.0	1	DEBB33D221KC1B	1 + 6	DEBB33D221KP2A
330	B	5.0	5.0	5.0	1	DEBB33D331KC1B	1 + 6	DEBB33D331KP2A
470	B	6.0	5.0	5.0	2	DEBB33D471KA2B	2 + 6	DEBB33D471KN2A
680	B	7.0	5.0	5.0	2	DEBB33D681KA2B	2 + 6	DEBB33D681KN2A
1000	B	8.0	5.0	5.0	2	DEBB33D102KA2B	2 + 6	DEBB33D102KN2A
2200	E	8.0	5.0	5.0	2	DEBE33D222ZA2B	2 + 6	DEBE33D222ZN2A
2200	F	9.0	5.0	5.0	2	DEBF33D222ZA2B	2 + 6	DEBF33D222ZN2A
3300	B	12.0	5.0	7.5	2	DEBB33D332KA3B	2 + 4	DEBB33D332KN3A
4700	F	9.0	5.0	5.0	2	DEBF33D472ZA2B	2 + 6	DEBF33D472ZN2A
4700	B	15.0	5.0	7.5	2	DEBB33D472KA3B	2 + 5	DEBB33D472KN7A
(µF)								
0.01	F	12.0	5.0	5.0	2	DEBF33D103ZA2B	2 + 6	DEBF33D103ZN2A
0.01	F	12.0	5.0	7.5	2	DEBF33D103ZA3B	2 + 4	DEBF33D103ZN3A

3.15kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.	Murata Part No. & Anglia Order Code Loose	Fig.	Murata Part No. & Anglia Order Code Taped
		Dia. max.	T max.					
100	B	5.0	6.0	7.5	1	DEBB33F101KCDB	1 + 3	DEBB33F101KP3A
220	B	5.0	6.0	7.5	1	DEBB33F221KCDB	1 + 3	DEBB33F221KP3A
470	B	7.0	6.0	7.5	1	DEBB33F471KC3B	1 + 4	DEBB33F471KP3A
680	B	8.0	6.0	7.5	2	DEBB33F681KA3B	2 + 4	DEBB33F681KN3A
1000	E	7.0	6.0	7.5	1	DEBE33F102ZC3B	1 + 4	DEBE33F102ZP3A
1500	B	11.0	6.0	7.5	2	DEBB33F152KA3B	2 + 4	DEBB33F152KN3A
2200	E	10.0	6.0	7.5	2	DEBE33F222ZA3B	2 + 4	DEBE33F222ZN3A
3300	B	15.0	6.0	7.5	2	DEBB33F332KA3B	2 + 5	DEBB33F332KN7A
4700	E	13.0	6.0	7.5	2	DEBE33F472ZA3B	2 + 4	DEBE33F472ZN3A

6.3kV For general purpose use

Value (pF)	Dielectric	Dimensions (mm)		Pitch	Fig.	Murata Part No. & Anglia Order Code Loose
		Dia. max.	T max.			
22	SL	9.0	7.0	10.0	1	DEC1X3J220JC4B
47	SL	9.0	7.0	10.0	1	DEC1X3J470JC4B
68	SL	12.0	7.0	10.0	1	DEC1X3J680JC4B
82	SL	12.0	7.0	10.0	1	DEC1X3J820JC4B
100	SL	13.0	7.0	10.0	1	DEC1X3J101JC4B
120	SL	14.0	7.0	10.0	1	DEC1X3J121JC4B
150	SL	15.0	7.0	10.0	1	DEC1X3J151JC4B
220	B	9.0	7.0	10.0	1	DECB33J221KC4B
330	B	9.0	7.0	10.0	1	DECB33J331KC4B
470	B	10.0	7.0	10.0	1	DECB33J471KC4B
680	B	11.0	7.0	10.0	1	DECB33J681KC4B
1000	E	11.0	7.0	10.0	1	DECE33J102ZC4B
2200	E	15.0	7.0	10.0	1	DECE33J222ZC4B



Other capacitor values and tolerances available to special order

Please contact our Sales Desk for details