

RFI Power Line Filters for DC Applications

DC Series



UL Recognized
CSA Certified
TUV Certified



60DCF6B

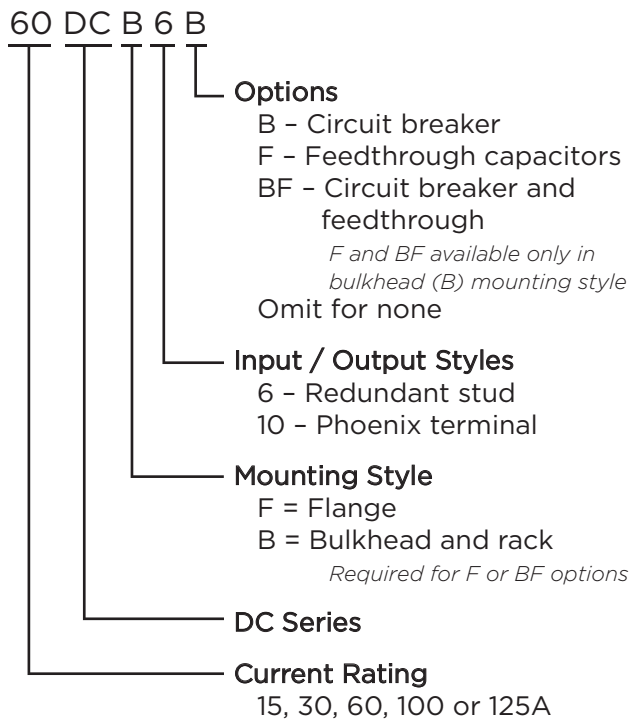


15DCF10

DC Series

- General purpose line filters for DC applications up to 125VDC
- Available with or without a circuit breaker
- Available with feedthrough capacitors for added high frequency performance
- Available in both flange mount (DCF) and bulkhead mount (DCB) configuration

Ordering Information



Specifications

Hipot rating (one minute):

Line to Ground:	2250 VDC
Line to Line:	1450 VDC

Rated Voltage (max):

80 VDC

Rated Current:

15 to 125A

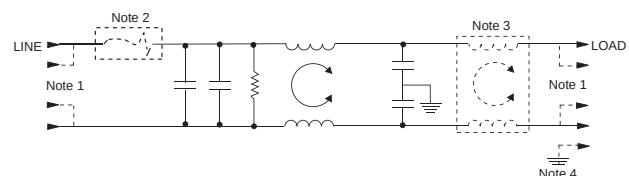
Operating Ambient Temperature Range

(at rated current I_r): -10°C to +55°C

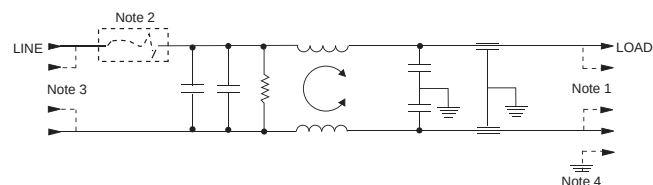
In an ambient temperature (T_a) higher than +55°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/30}$

Electrical Schematics

Standard Performance



High Frequency Performance (F & BF Styles)



- Note 1: Depicts redundant style 6 terminals.
Note 2: Depicts optional circuit breaker.
Note 3: For 100 & 125A versions delete second coil.
Note 4: Depicts style 10 terminal versions which have separate ground stud.

RFI Power Line Filters for DC Applications *(continued)*

DC Series

Available Part Numbers

Standard Performance		High Performance	
15DCF6	15DCF10	15DCB10F	15DCB6F
30DCF6	30DCF10	30DCB10F	30DCB6F
60DCF6	60DCF10	60DCB10F	60DCB6F
100DCF6	100DCF10	100DCB10F	100DCB6F
125DCF6	125DCF10	125DCB10F	125DCB6F
15DCF6B	15DCF10B	15DCB6BF	
30DCF6B	30DCF10B	30DCB6BF	
60DCF6B	60DCF10B	60DCB6BF	
100DCF6B	100DCF10B	100DCB6BF	
125DCF6B	125DCF10B	125DCB6BF	
15DCB6	15DCB10	15DCB10BF	
30DCB6	30DCB10	30DCB10BF	
60DCB6	60DCB10	60DCB10BF	
100DCB6	100DCB10	100DCB10BF	
125DCB6	125DCB10	125DCB10BF	
15DCB6B	15DCB10B		
30DCB6B	30DCB10B		
60DCB6B	60DCB10B		
100DCB6B	100DCB10B		
125DCB6B	125DCB10B		

Termination Options

Style 6 (15, 30 & 60A)

- Supplied with #10-32 redundant studs
- 0.625 [15.88] spacing like polarity
- 0.750 [19.05] spacing opposing polarity
- Torque specification: 27 ±3 in-lb.

Style 10 (15 & 30A)

- PHOENIX CONTACT* part number: VDFK4
- Accepts 12 AWG stranded wire
- Wire strip length: 0.315 [8.0]
- Torque specification: 5.5 – 7.0 in-lb.
- Ground stud: 8-32

Style 10 (100A)

- PHOENIX CONTACT* part number: HDFK 25-VP
- Accepts 4 AWG stranded wire
- Wire strip length: 0.748 [19.0]
- Torque specification: 35.4 – 39.9 in-lb.
- Ground stud: 1/4-20

Style 6 (100 & 125A)

- Supplied with 1/4-20 redundant studs
- 0.750 [19.05] spacing like polarity
- 1.00 [25.4] spacing opposing polarity
- Torque specification: 45 ±2 in-lb

Style 10 (60A)

- PHOENIX CONTACT* part number: HDFK 16-VP
- Accepts 6 AWG stranded wire
- Wire strip length: 0.630 [16.0]
- Torque specification: 17.7 – 21.2 in-lb.
- Ground stud: 10-32

Style 10 (125A)

- PHOENIX CONTACT* part number: HDFK 50-VP
- Accepts 1 AWG stranded wire
- Wire strip length: 0.945 [24.0]
- Torque specification: 35.4 – 39.9 in-lb.
- Ground stud: 1/4-20

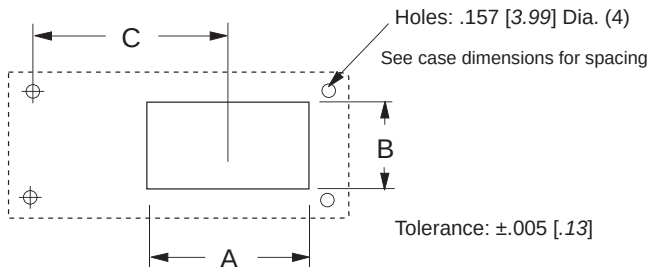
*PHOENIX CONTACT is a trademark of Phoenix Contact GmbH & Co. KG.

RFI Power Line Filters for DC Applications *(continued)*

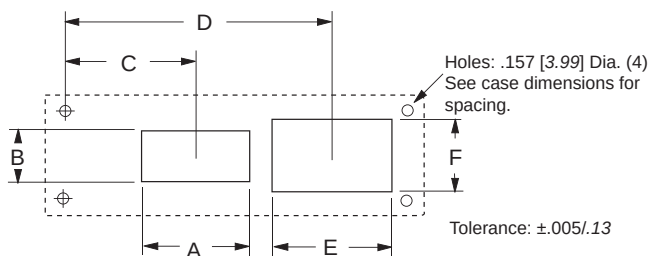
DC Series

Recommended Panel Cutouts

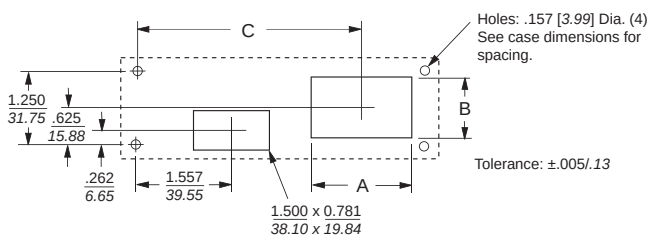
DCB6(F) & DCB10(F)



DCB6B(F) & DCB10B(F) 15 to 60A



DCB6B(F) & DCB10B(F) 100 to 125A



Cutout Dimensions

DCB6(F) & DCB10(F)

Part No.	A	B	C
15DCB6(F)	1.375	1.249	3.472
30DCB6(F)	34.93	31.72	88.19
15DCB10(F)	1.250	1.000	3.472
30DCB10(F)	31.75	25.40	88.19
60DCB6(F)	1.375	1.249	3.472
60DCB10(F)	1.674	1.010	3.443
100DCB6(F)	1.700	1.549	3.472
125DCB6(F)	43.18	39.34	88.19
100DCB10(F)	1.954	1.500	2.830
125DCB10(F)	2.250	1.590	2.725
	57.15	40.39	69.22

DCB6B(F) & DCB10B(F) 15 to 60A

Part No.	A	B	C	D	E	F
15DCB6B(F)	1.50	0.781	1.308	3.472	1.375	1.249
15DCF6B	38.10	19.84	33.22	88.19	34.93	31.72
15DCB10B(F)	1.50	0.781	1.308	3.472	1.250	1.00
15DCF10B	38.10	19.84	33.22	88.19	31.75	25.40
30DCB6B(F)	1.50	0.781	1.308	3.472	1.375	1.249
30DCF6B	38.10	19.84	33.22	88.19	34.93	31.72
30DCB10B(F)	1.50	0.781	1.308	3.472	1.250	1.00
30DCF10B	38.10	19.84	33.22	88.19	31.75	25.40
60DCB10B(F)	1.50	0.781	1.308	3.443	1.674	1.010
60DCF10B	38.10	19.84	33.22	87.45	42.52	25.65
60DCF6B(F)	1.50	0.781	1.308	3.472	1.375	1.249
60DCF6B	38.10	19.84	33.22	88.19	34.93	31.72

DCB6B(F) & DCB10B(F) 100 to 125A

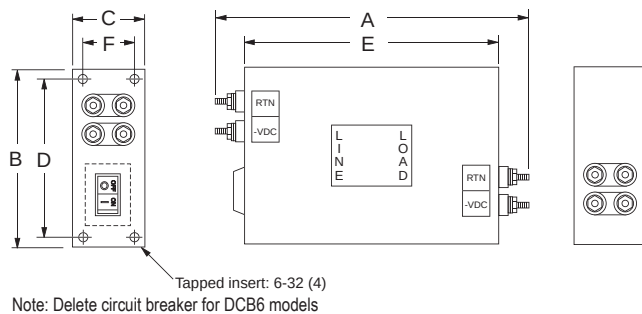
Part No.	A	B	C
100DCB6B(F)	1.70	1.549	4.222
100DCF6B			
125DCB6B(F)	43.18	39.34	107.23
125DCF6B			
100DCB10B(F)	1.954	1.50	4.295
100DCF10B	49.63	38.10	109.09
125DCB10B(F)	2.25	1.59	4.147
	57.15	40.39	105.33
125DCF10B	2.25	1.59	2.725
	57.15	40.39	105.33

RFI Power Line Filters for DC Applications *(continued)*

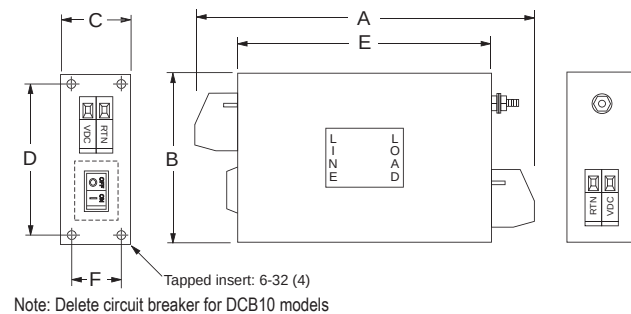
DC Series

Case Styles

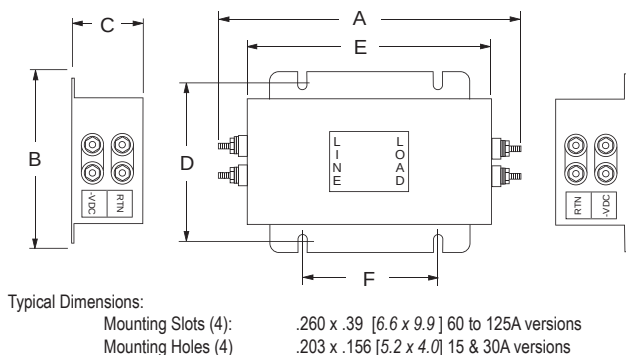
DCB6 & DCB6B



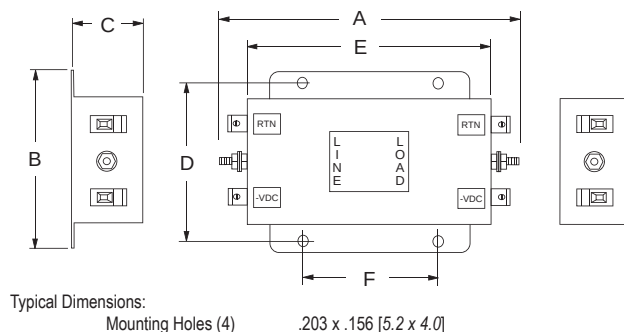
DCB10 & DCB10B (60 to 125A)



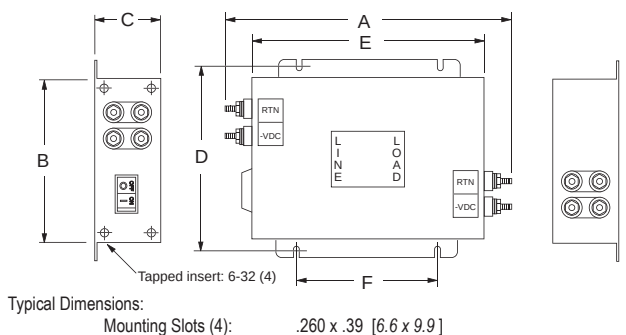
DCF6



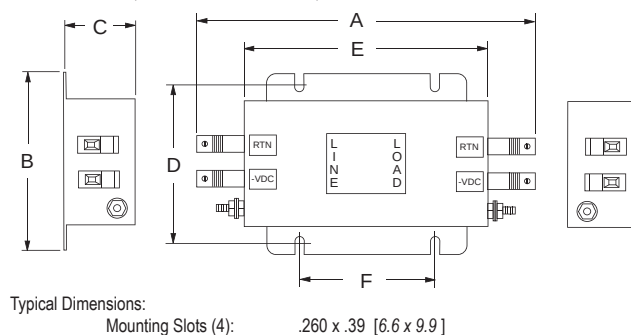
DCF10 (15 & 30A)



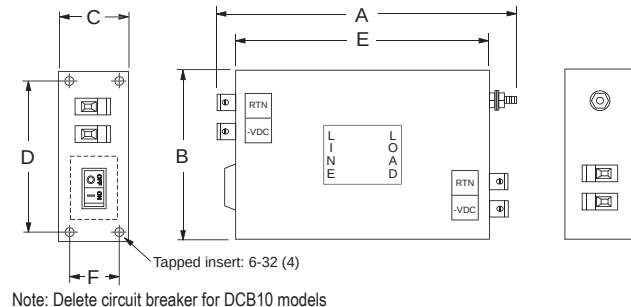
DCF6B



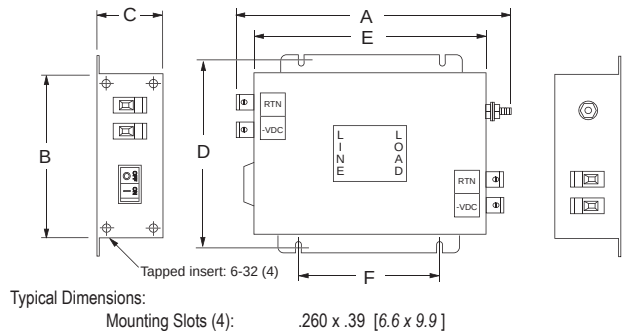
DCF10 (60 to 125A)



DCB10 & DCB10B (15 to 30A)



DCF10B (15 & 30A)

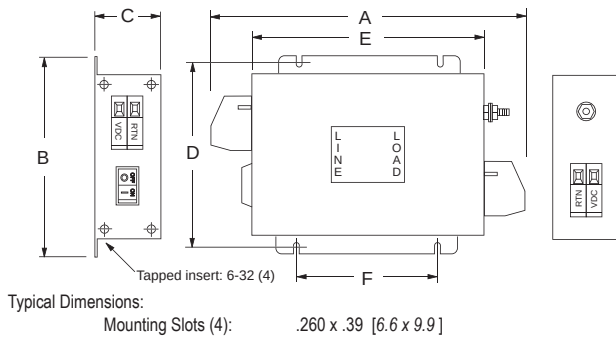


RFI Power Line Filters for DC Applications *(continued)*

DC Series

Case Styles *(continued)*

DCF10B (60 TO 125A)



Case Dimensions

Part No.	A (max)	B (max)	C (max)	D ± 0.020 $\pm .51$	E (max)	F ± 0.020 $\pm .51$
15DCB6(F)	5.69 144.5	5.06 128.5	1.48 37.6	4.50 114.3	4.06 103.1	0.950 24.13
15DCB6B(F)	7.69 195.3	5.06 128.5	1.48 37.6	4.50 114.3	6.06 153.9	0.950 24.13
15DCB10(F)	5.06 128.5	5.06 128.5	1.48 37.6	4.50 114.3	4.06 103.1	0.950 24.13
15DCB10B(F)	7.06 179.3	5.06 128.5	1.48 37.6	4.50 114.3	6.06 153.9	0.950 24.13
15DCF6	5.33 135.4	3.10 78.7	1.78 45.2	2.677 68.0	3.70 94.0	2.00 50.80
15DCF6B(F)	7.69 195.3	5.06 128.5	1.48 37.6	5.740 145.8	6.06 153.9	3.52 89.41
15DCF10	4.75 120.7	3.10 78.7	1.78 45.2	2.677 68.0	3.70 94.0	2.0 50.8
15DCF10B(F)	7.06 179.3	5.06 128.5	1.48 37.6	5.740 145.80	6.06 153.9	3.520 89.41
30DCB6(F)	7.69 195.3	5.06 128.5	1.48 37.6	4.50 114.3	6.06 153.9	0.95 24.13
30DCB6B(F)	8.69 220.7	5.06 128.5	1.48 37.6	4.50 114.3	7.06 179.3	0.95 24.13
30DCB10(F)	7.06 179.3	5.06 128.5	1.48 37.6	4.50 114.3	6.06 153.9	0.95 24.13
30DCB10B(F)	8.06 204.7	5.06 128.5	1.48 37.6	4.50 114.3	7.06 179.3	0.95 24.13
30DCF6	6.19 157.2	3.96 100.6	2.18 55.4	3.50 88.9	4.56 115.8	2.00 50.8
30DCF6B	8.69 220.73	5.0 127.0	1.48 37.6	5.74 145.8	7.06 179.3	4.52 114.81
30DCF10	5.56 141.2	3.96 100.58	2.18 55.4	3.5 88.9	4.56 115.8	2.0 50.8
30DCF10B	8.06 204.7	5.06 128.52	1.48 37.6	5.74 145.8	7.06 179.3	4.52 114.81

Case Dimensions *(continued)*

Part No.	A (max)	B (max)	C (max)	D ± 0.020 $\pm .51$	E (max)	F ± 0.020 $\pm .51$
60DCB6(F)	8.69 220.73	5.06 128.52	1.48 37.6	4.50 114.3	7.06 179.3	0.95 24.13
60DCB6B(F)	10.69 271.5	5.06 128.52	1.48 37.6	4.50 114.3	9.06 230.1	0.95 24.13
60DCF6	7.56 192.0	5.48 139.2	2.55 64.8	4.92 124.97	5.94 150.9	2.756 70.0
60DCF6B	10.69 271.5	5.06 128.52	1.48 37.6	5.74 145.8	9.06 230.1	6.52 165.61
60DCF10	8.56 217.4	5.48 139.2	2.55 64.8	4.92 124.97	5.94 150.9	2.576 65.43
60DCF10B	11.75 298.5	5.06 128.5	1.48 37.6	5.74 145.8	9.06 230.1	6.52 165.61
100DCB6(F)	10.31 261.9	5.06 128.5	1.78 45.2	4.50 114.3	8.06 204.7	1.25 31.75
100DCB6B(F)	12.31 312.7	6.06 153.9	1.78 45.2	5.50 139.7	10.06 255.5	1.25 31.75
100DCB10(F)	11.13 282.6	5.06 128.5	1.78 45.2	4.50 114.3	8.06 204.7	1.25 31.75
100DCB10B(F)	13.13 333.5	6.06 153.9	1.78 45.2	5.50 139.7	10.06 255.5	1.25 31.75
100DCF6	10.60 269.2	6.30 160.0	2.52 64.0	5.70 144.78	8.46 214.9	4.52 114.81
100DCF6B	12.31 312.7	6.06 153.9	1.78 45.2	6.74 171.2	10.06 255.5	7.52 191.01
100DCF10	11.50 292.1	6.30 160.0	2.52 64.0	5.70 144.78	8.46 214.9	4.52 114.81
100DCF10B	13.13 333.5	6.06 153.9	1.78 45.2	6.74 171.2	10.06 255.5	7.52 191.01
125DCB6(F)	10.31 261.9	5.06 128.5	1.78 45.2	4.50 114.3	8.06 204.7	1.25 31.75
125DCB6B(F)	12.31 312.7	6.06 153.9	1.78 45.2	5.50 139.7	10.06 255.5	1.25 31.75
125DCB10(F)	11.50 292.1	5.06 128.5	1.78 45.2	4.50 114.30	8.06 204.7	1.25 31.75
125DCB10B(F)	13.50 342.9	6.06 153.9	1.78 45.2	5.50 139.7	10.06 255.5	1.25 31.75
125DCF6	10.60 269.2	6.30 160.0	2.52 64.0	5.70 144.78	8.46 214.9	4.52 114.81
125DCF6B	12.31 312.7	6.06 153.9	1.78 45.2	6.74 171.2	10.06 255.5	7.52 191.01
125DCF10	11.86 301.2	6.30 160.0	2.52 64.0	5.70 144.78	8.46 214.9	4.52 114.81
125DCF10B	13.50 342.9	6.06 153.9	1.78 45.2	6.74 171.2	10.06 255.5	7.52 191.01

RFI Power Line Filters for DC Applications *(continued)*

DC Series

Performance Data *(continued)*

Minimum Insertion Loss

Measured in closed 50 Ohm system

Standard Performance

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz									
	.01	.05	.1	.15	.5	1	3	5	10	30
15A	-	1	12	20	41	45	61	63	47	39
30A	-	4	15	23	47	59	64	56	44	36
60A	-	-	9	17	38	40	59	50	39	34
100A	-	-	10	18	38	39	53	50	35	21
125A	-	-	12	18	30	32	44	49	29	18

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz									
	.01	.05	.1	.15	.5	1	3	5	10	30
15A	7	22	27	30	30	36	56	49	38	31
30A	7	22	28	31	32	59	56	51	41	28
60A	15	30	36	40	40	35	60	51	39	32
100A	14	29	35	39	33	30	53	53	41	30
125A	14	24	35	39	40	28	53	60	42	33

High Frequency Performance (F & BF Styles)

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz										50 to 300 to	
	.01	.05	.1	.15	.5	1	3	5	10	20	300	3000
15A	-	1	12	20	41	45	55	50	45	25	50	30
30A	-	4	15	20	46	58	60	60	48	35	50	30
60A	-	-	9	16	38	42	52	60	48	26	40	30
100A	-	-	9	16	38	42	52	60	42	26	40	30
125A	-	-	9	16	28	34	46	54	34	34	40	30

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz									
	.01	.05	.1	.15	.5	1	3	5	10	20
15A	7	22	27	30	30	50	60	60	60	36
30A	7	22	27	30	33	56	60	60	60	40
60A	15	30	36	40	37	26	46	54	48	30
100A	14	29	35	39	33	30	56	53	41	30
125A	14	29	35	39	40	28	53	60	42	33

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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