

MCR Hardwired Series – Power Line Conditioning with Voltage Regulation

The MCR Hardwired Series provides excellent noise filtering and surge protection to safeguard connected equipment from damage, degradation or misoperation. Combined with the excellent voltage regulation inherent to SolaHD's ferroresonant design, the MCR can increase the actual Mean Time Between Failure (MTBF) of protected equipment. The MCR is a perfect choice where dirty power, caused by impulses, swell, sags, brownouts and waveform distortion can lead to costly downtime because of damaged equipment.

Applications

- Industrial automation and control equipment PLCs
- Machine tools
- Computer loads and electronic equipment
- Robotics
- Semiconductor fabrication equipment

Features

- $\pm 3\%$ output voltage regulation
- Noise attenuation
 - 120 dB common mode
 - 60 dB transverse mode
- Surge protection tested to ANSI/IEEE C62.41 Class A & B Waveform:
 - <10 V let through typical
- Acts as a step-up or step-down transformer
- Harmonic filtering
- Hardwired
- Galvanic isolation provides exceptional circuit protection
- 25 year typical MTBF
- No maintenance required

Selection Tables: Single Phase

Group 2 – MCR Series, 60 Hz Only

VA	Catalog Number	Voltage Input	Voltage Output	Height in (mm)	Width in (mm)	Depth in (mm)	Ship Weight lbs (kg)	Design Style	Elec Conn
120	63-23-112-4	120, 208, 240, 480	120	9.00 (228.6)	4.00 (101.6)	5.00 (127.0)	15.0 (6.80)	1	D
250	63-23-125-4	120, 208, 240, 480	120	10.00 (254.0)	6.00 (152.4)	8.00 (203.2)	27.0 (12.25)	1	D
500	63-23-150-8	120, 208, 240, 480	120, 208, 240	13.00 (330.2)	9.00 (228.6)	7.00 (177.8)	37.0 (16.78)	1	E
750	63-23-175-8	120, 208, 240, 480	120, 208, 240	14.00 (355.6)	9.00 (228.6)	7.00 (177.8)	52.0 (23.60)	1	E
1000 *	63-23-210-8	120, 208, 240, 480	120, 208, 240	17.00 (431.8)	9.00 (228.6)	7.00 (177.8)	62.0 (28.12)	1	E
1500 *	63-23-215-8	120, 208, 240, 480	120, 208, 240	17.00 (431.8)	13.00 (330.2)	9.00 (228.6)	95.0 (43.10)	1	E
2000 *	63-23-220-8	120, 208, 240, 480	120, 208, 240	18.00 (457.2)	13.00 (330.2)	9.00 (228.6)	109.0 (49.44)	1	E
3000 *	63-23-230-8	120, 208, 240, 480	120, 208, 240	19.00 (482.6)	13.00 (330.2)	9.00 (228.6)	142.0 (64.41)	1	E
5000 *	63-23-250-8	120, 208, 240, 480	120, 208, 240	28.00 (711.2)	13.00 (330.2)	9.00 (228.6)	222.0 (100.70)	1	E
7500	63-28-275-8	208, 240, 480	120, 208, 240	27.00 (685.8)	26.00 (660.4)	9.00 (228.6)	362.0 (164.20)	2	F
10000	63-28-310-8	208, 240, 480	120, 208, 240	28.00 (711.2)	26.00 (660.4)	9.00 (228.6)	446.0 (202.30)	2	F
15000	63-28-315-8	208, 240, 480	120, 208, 240	28.00 (711.2)	38.00 (965.2)	10.00 (254.0)	710.0 (322.05)	3	F

* Canadian option: cULus units must be ordered by changing "-8" (UL only) to "-C8".



Certifications and Compliances

All Models

- RoHS Compliant

Selection Table: Group 2

- cULus Listed (120VA-5kVA Units)
 - UL 1012, CSA C22.2 No. 107.1
- UL Listed (7.5kVA-15kVA Units)
 - UL 1012

Selection Table: Group 3

- cULus Listed (500VA-3kVA Units)
 - UL 1012, CSA C22.2 No. 107.1
- SP Certified (5kVA-15kVA Units)
 - CSA C22.2 No. 107.1

Selection Table: Group 4

- cULus Listed
 - UL 1012, CSA C22.2 No. 107.1

Related Products

- On-line UPS (S4K Industrial)
- Surge Protection
- Three Phase Power Conditioners
- Active Tracking® Filters

Selection Tables: Single Phase

Group 3 – MCR Series, 60 Hz Only

VA	Catalog Number	Voltage Input	Voltage Output	Height in (mm)	Width in (mm)	Depth in (mm)	Ship Weight lbs (kg)	Design Style	Elec Conn
500	63-31-150-8	600	120, 208, 240	13.00 (330.2)	9.00 (228.6)	7.00 (177.8)	38.0 (17.24)	1	B
1000	63-32-210-8	600	120, 208, 240	17.00 (431.8)	9.00 (228.6)	7.00 (177.8)	62.0 (28.12)	1	B
2000	63-32-220-8	600	120, 208, 240	18.00 (457.2)	13.00 (330.2)	10.00 (254.0)	109.0 (49.44)	1	B
3000	63-32-230-8	600	120, 208, 240	19.00 (482.6)	13.00 (330.2)	10.00 (254.0)	142.0 (64.41)	1	B
5000	63-29-250-8	208, 240, 480, 600	120, 208, 240	28.00 (711.2)	13.00 (330.2)	10.00 (254.0)	221.0 (100.24)	1	A
7500	63-29-275-8	208, 240, 480, 600	120, 208, 240	27.00 (685.8)	25.00 (635.0)	10.00 (254.0)	360.0 (163.30)	2	A
10000	63-29-310-8	208, 240, 480, 600	120, 208, 240	28.00 (711.2)	25.00 (635.0)	10.00 (254.0)	441.0 (200.03)	2	A
15000	63-29-315-8	208, 240, 480, 600	120, 208, 240	28.00 (711.2)	38.00 (965.2)	10.00 (254.0)	706.0 (320.24)	3	A

Group 4 – MCR Series, 50 Hz Only (±5% output voltage regulation)

VA	Catalog Number	Voltage Input	Voltage Output	Height in (mm)	Width in (mm)	Depth in (mm)	Ship Weight lbs (kg)	Design Style	Elec Conn
120	63-23-612-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	9.00 (228.6)	6.00 (152.4)	8.00 (203.2)	24.0 (10.90)	1	C
250	63-23-625-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	11.00 (279.4)	6.00 (152.4)	8.00 (203.2)	27.0 (12.25)	1	C
500	63-23-650-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	13.00 (330.2)	9.00 (228.6)	7.00 (177.8)	40.0 (18.14)	1	C
1000	63-23-710-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	18.00 (457.2)	9.00 (228.6)	7.00 (177.8)	64.0 (29.03)	1	C
2000	63-23-720-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	18.00 (457.2)	13.00 (330.2)	10.00 (254.0)	113.0 (51.26)	1	C
3000	63-23-730-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	27.00 (685.8)	13.00 (330.2)	10.00 (254.0)	162.0 (73.48)	1	C
5000	63-23-750-8	110, 120, 220, 240, 380, 415	110, 120, 220, 240	30.00 (762.0)	13.00 (330.2)	10.00 (254.0)	266.0 (120.66)	1	C
7500	63-28-775-8	220, 240, 380, 415	110, 120, 220, 240	28.00 (711.2)	26.00 (660.4)	10.00 (254.0)	393.0 (178.26)	2	C1
10000	63-28-810-8	220, 240, 380, 415	110, 120, 220, 240	30.00 (762.0)	26.00 (660.4)	10.00 (254.0)	490.0 (222.26)	2	C2
15000	63-28-815-8	220, 240, 380, 415	110, 120, 220, 240	30.00 (762.0)	38.00 (965.2)	10.00 (254.0)	776.0 (352.00)	3	C2

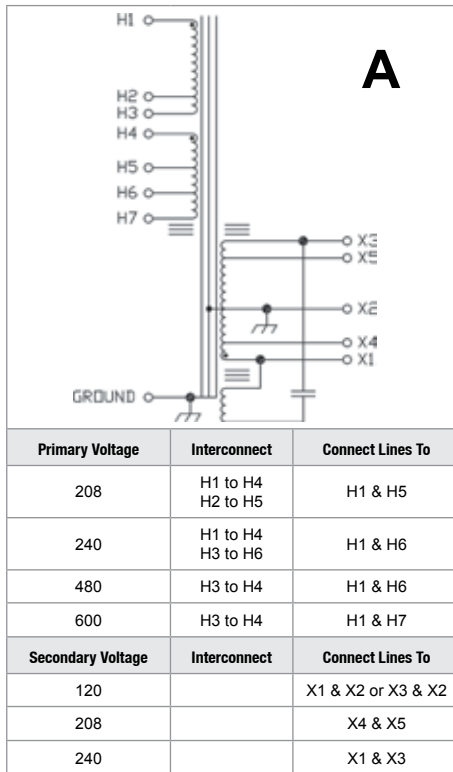
Specifications

Parameter	Condition	Value
Input		
Voltage	Continuous at full load (lower input voltage possible at lighter load)	+10% to -20% of nominal
	For temporary surge or sags	+20% to -35% of nominal
Current ¹	at Full Load & 80% of nominal input voltage	$I_{in} \cong (VA/.89)/(V_{in} \times 80\%)$
Frequency	See Operating Characteristics section for details.	50 Hz or 60 Hz depending on model
Output ²		
Line Regulation	$V_{in} > 80\%$ and $< 110\%$ of nominal	± 5% for 50 Hz units, ± 3% for 60 Hz units
Overload Protection	At Nominal Input Voltage	Current limited at 1.65 times rated current
Output Harmonic Distortion	At full load within input range	3% total RMS content
Noise Attenuation	Common Mode	120 dB
	Transverse Mode	60 dB
General		
Efficiency	At Full Load	Up to 92%
Storage Temperature	Humidity <95% non-condensing	-20° to +85°C
Operating Temperature	Humidity <95% non-condensing	-20° to 50°C
Audible Noise	Full Resistive Noise	35 dBA to 65 dBA
Warranty	10 + 2 year limited warranty	

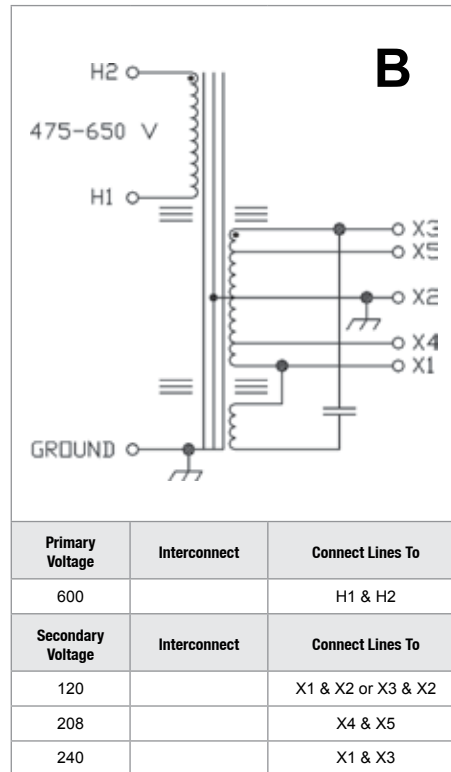
Notes: 1 - Consult user manual for fuse sizing.

2 - It is recommended that the unit run at a minimum of 40-50% load.

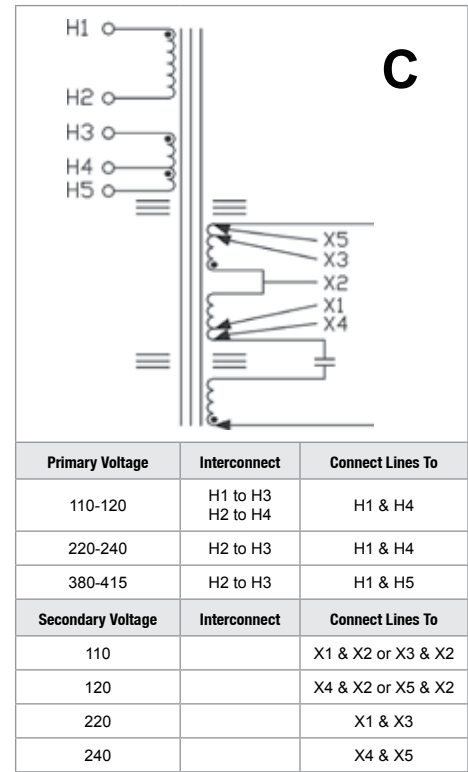
Electrical Connections



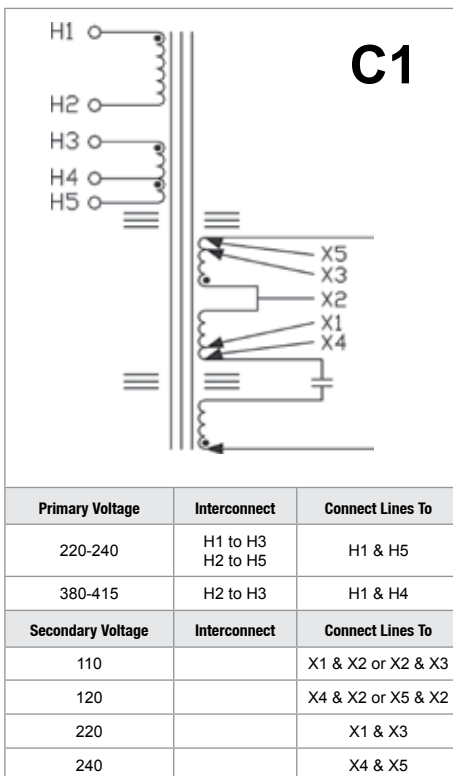
MCR 60 Hz 5000–15000 VA



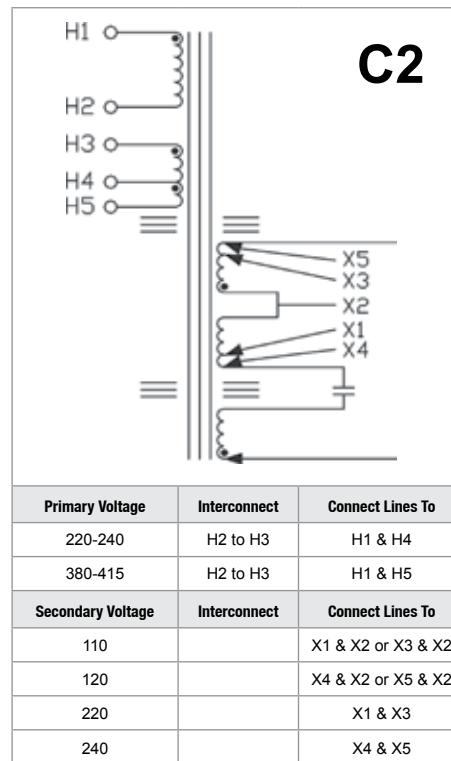
MCR 60 Hz 500–3000 VA



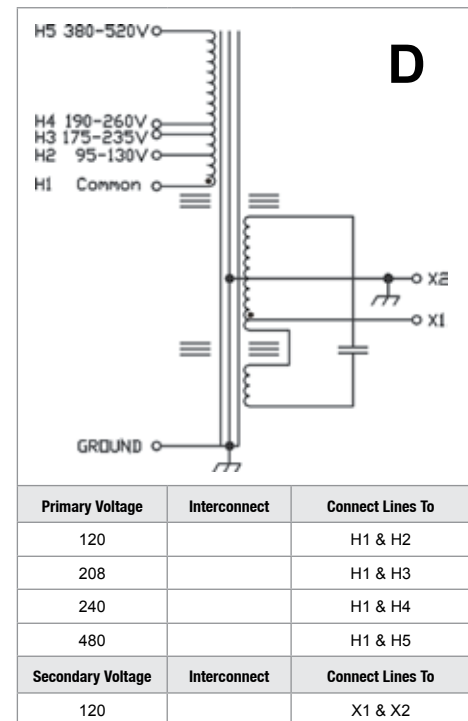
MCR 50 Hz 120–5000 VA



MCR 50 Hz 7500 VA

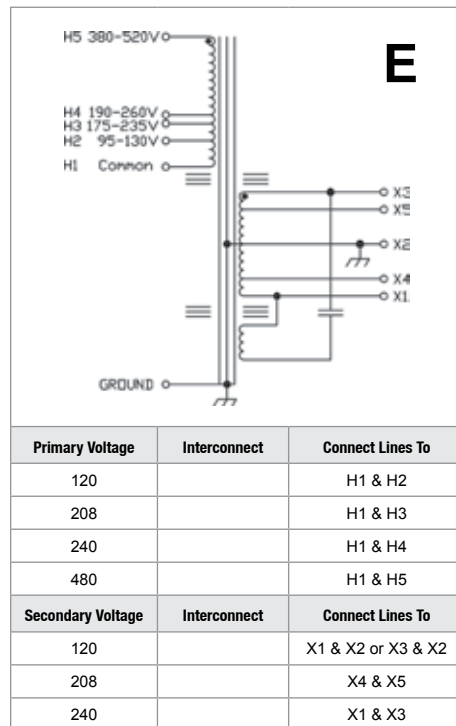


MCR 50 Hz 10000–15000 VA

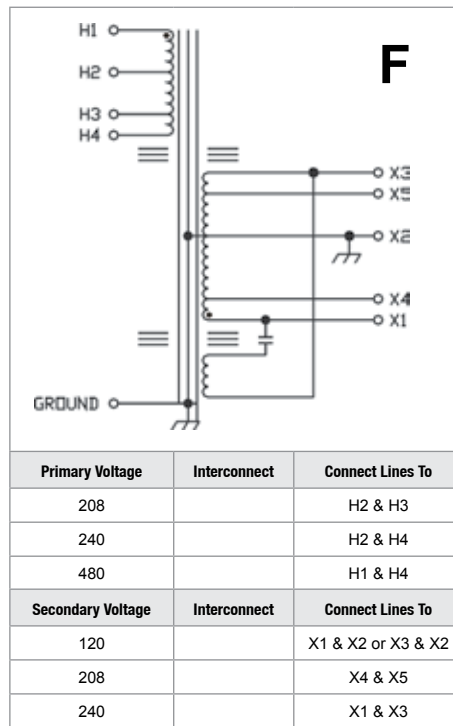


MCR 60 Hz 120–250 VA

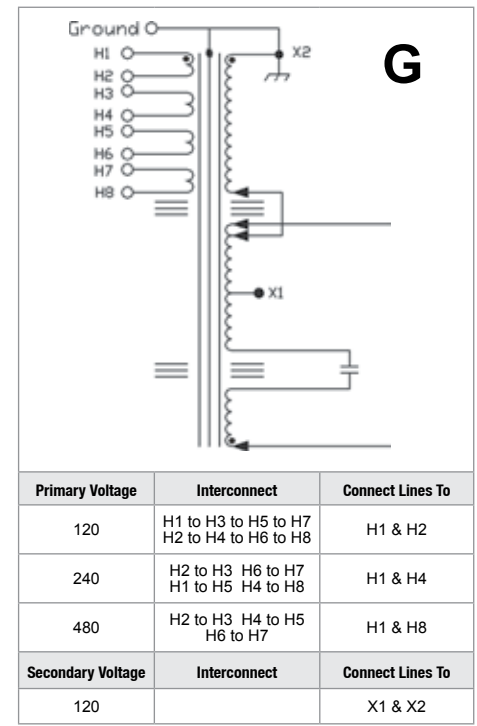
Electrical Connections



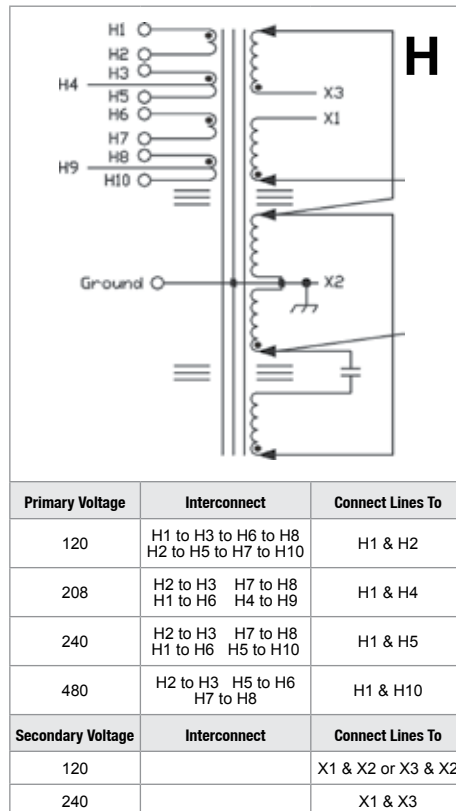
MCR 60 Hz 500-5000 VA



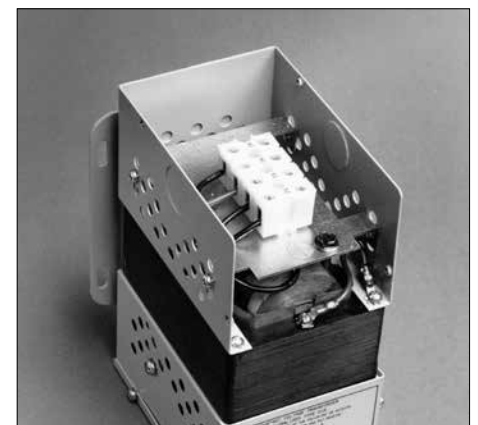
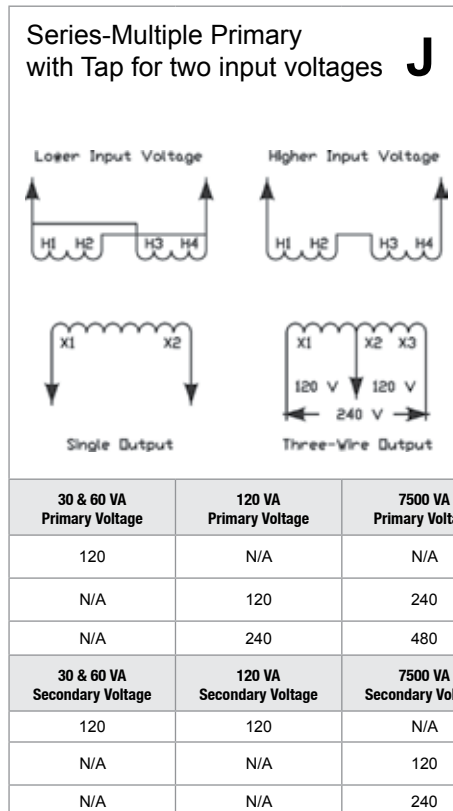
MCR 60 Hz 7500, 10000 and 15000 VA



CVS 60 Hz 250 VA only



CVS 60 Hz 500-5000 VA



Open MCR/CSV terminal

Note: Secondaries are not grounded. Ground X₂ per Code.

CVS 60 Hz 30-120 VA & 7500 VA

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.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru