

# **FN** ***FILTER NETWORKS*** A ***Curtis Industries*** Company



RFI & EMI  
Components and  
Subsystems



**In 1979**

Filter Networks began manufacturing RFI and EMI components.

Filter Networks was acquired in 2009 by Curtis Industries. Our mission then, as now, was simple: to design and manufacture custom products, deliver on time and within specification, all at a reasonable price. By maintaining diverse engineering and manufacturing talents, Filter Networks has been able to respond to the unique requests of our customers over a broad range of RFI and EMI components.

Today, Filter Networks is headquartered in Milwaukee, WI with Curtis Industries. We continue to be a world leading manufacturer of quality RFI and EMI components and subsystems



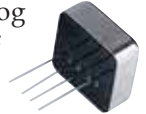
used for military, industrial, and commercial applications. With over 30 years of design and manufacturing experience, Filter Networks is committed to providing our customers

with technically advanced, high quality products, at competitive prices. Our vast experience allows us to tailor standard "off-the-shelf" products to meet the most demanding requirements, without the need for costly development efforts.

All products offered by Filter Networks are subject to the same rigorous design, manufacturing and inspection criteria. Our manufacturing, testing,

and inspections conform to the requirements of MIL-I-45208A and are certified to ISO 9001:2000. Your benefit from this structure is the assurance that Filter Networks' products will work correctly "right out of the box."

The products described in this catalog have resulted from over 30 years of design experience with the utilization of the latest computer aided technology. In addition, all products have been analyzed by our own propriety software programs that review electrical as well as physical parameters such as realizable "Q" plating techniques, and environmental considerations. Filter Networks' designs are developed for ease of manufacturing and flexibility as a prime criteria. This coupled with adequate inventories of raw materials and "in-house" control of all critical process from design through manufacturing and testing, yields deliveries that are generally quoted in days, not weeks or months.



At Filter Networks, we believe that putting our trademark on the product is a commitment to you of quality, service and satisfaction. This trademark is our signature and it represents a continued tradition of unparalleled service to the RFI and EMI industry.



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# Ordering and General Information

## How to Order

Part numbers are assigned at time of order. If you have generated a part number, give the name of the component and the frequency range as stated in the catalog. If special options or non-standard features are desired, they should be fully described and a unique part number will be assigned. Special modifications for unusual applications, custom components and adaptation of existing parts can be designed and developed by our engineering department. A qualified staff of experienced sales and design engineers is available to assist you in specifying components for your special requirements.

## Ordering address:

Filter Networks  
2400 South 43rd Street · Milwaukee, WI 53219

Phone: 414-649-4200 · Fax: 414-649-4279

E-mail: [sales@filternetworks.com](mailto:sales@filternetworks.com)

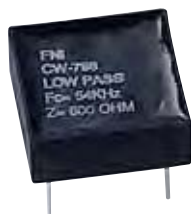
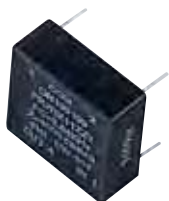
Web: <http://www.filternetworks.com>

Our CAGE code is 8Y425

Orders may also be placed with our sales representative in your area. Determination of price, terms and conditions of sales and final acceptance of orders may only be by our staff in Milwaukee, Wisconsin.

## Payment Options

Filter Networks offers many convenient payment methods, including: Open Account (subject to credit approval), Mastercard/Visa, and Letters of Credit. Please specify payment method at time of order.



## Product Specification

Published specifications are subject to change by the factory at any time. We reserve the right to discontinue items without prior notice.

## Delivery

If a carrier is not specified at the time of order, shipment will be made by the most economical method. For rush service, we will ship by air freight, air express, air parcel post or others, as requested. Firm delivery dates are given at time of quotation.

## Packing and Packaging

Packing and Packaging is normally supplied to "Best Commercial" standards. Packaging to military requirements, including Bar Coding is available on request.

## Warranty

Products manufactured by Filter Networks are warrantied against defective materials and workmanship for a period of one year from the date of shipment. Filter Networks' obligation for any defect shall be limited to the repair of the defective part. Filter Networks assumes no liability if defects result from improper use, operation above rated capacities, repairs not made by us, or misapplication of equipment. No other warranty is expressed or implied. Filter Networks neither makes nor authorizes any other person to make any other warranty concerning its products. Filter Networks is not liable for consequential damages. Warranty returns must first be authorized by our sales office and must be returned prepaid.



## In-House Testing and Environmental Capabilities

Test Function	Capabilities	Reference
Immersion		MIL-STD-202, 810
Seal		MIL-STD-210, 883
Resistance to Solvents		MIL-STD-202
Solderability		MIL-STD-202
Resistance to Soldering Heat		MIL-STD-202
Terminal Strength		MIL-STD-202
Dielectric Withstanding Voltage	100-5000 VAC	MIL-STD-202
Insulation Resistance	1 to 1000 VDC 1 X 10 <sup>8</sup> M Ohms	MIL-STD-202, 883
DC Resistance	0 to 2000 M Ohms	MIL-STD-202
Capacitance	0 to 99 mF	MIL-STD-202
Inductance	0 to 9900 H	MIL-STD-202
Quality Factor (Q)		Quality Factor (Q)
High Temperature Life Test Low Temperature Cycling	-65° C to +130° C	MIL-STD-202, 81
Thermal Shock	-65° C to +130° C	MIL-STD-202, 810
Multi-Component Burn-In	DC up to 100 Amp, 240 VAC 400 Hz 3 Phase 15 kW max 240 VAC 60 Hz 3 Phase 25 kW	MIL-STD-220
Current Measurement	up to 10 A rms	MIL-STD-220
Radiographic Inspection	Multiple Part X-Ray	MIL-STD-202



# Cylindrical

### CYLINDRICAL FILTERS FOR POWER LINE APPLICATIONS MILITARY GRADE CYLINDRICAL FILTERS



“Filter Networks responds to your interference requirements with state-of-the-art technology and old fashioned personal customer service.”

Filter Networks' Cylindrical Filters offer superior interference suppression for AC or DC power lines. Filter Networks' Cylindrical Filter designs are manufactured, inspected, and tested to meet the requirements of the military specifications MIL-PRF-28861 and MIL-PRF-15733.

Compact plated brass tube housings and hermetic terminal seals enable reliable operation in hostile moisture and shock/vibration environments. The use of dependable cylindrical dielectric feed through capacitors ensures dramatic broadband (20 KHz to 1 GHz) interference suppression (up to 80db) while withstanding line voltages as severe as 220 VAC 400 Hz at temperature extremes from -55° C to +125° C.

By selecting from a wide range of standard capacitor values and custom wound inductors, Filter Networks can design a cylindrical filter to meet specific voltage, current, performance and environmental requirements. Standard designs are available for many existing MIL-PRF-15733 and MIL-PRF-28861 “slash” sheet designs.

Filter Networks offers a variety of quality assurance plans for its Cylindrical Filter product line including combinations of thermal shock, burn-in, and full military Gp A, B, C testing in accordance with either MIL-PRF-15733 or MIL-PRF-28861 (Class B) requirements.

Filter Networks responds to your interference requirements with state-of-the-art technology and old fashioned personal customer service. Let Filter Networks' application engineers discuss your needs. You'll be pleased to find “The Difference is Response”!









Part Number	Current Rating	Line-to-Line Operating Voltage (60 Hz)	Temperature Range	Mating Connector	Minimum Insertion Loss (dB) Per MIL-STD-220						
					50 KHz	150 KHz	300 KHz	1 MHz	10 MHz	100 MHz	1GHz
NF-246	3 Amps	240 VAC	-55° to 85° C	MS-3106-14S-7S	40	70	80	80	80	70	60
NF-247	5 Amps	240 VAC	-55° to 85° C	MS-3106-14S-7S	34	64	70	80	80	70	70
NF-248	10 Amps	240 VAC	-55° to 85° C	MS-3108-10SL-3S	24	60	70	80	80	70	70
NF-349	10 Amps	240 VAC	-55° to 85° C	MS-3106-14S-7S	24	60	70	80	80	70	70
NF-419	10 Amps	240 VAC	-55° to 85° C	MS-3108-10SL-3S	40	70	80	80	80	70	60



## POWER LINE, POWER ENTRY FILTERS FOR TEMPEST APPLICATIONS

Offering high-power performance in a space efficient, low cost, standard package, Filter Networks' NF-246, NF-247 and NF-248 Power Line Filters are designed to meet demanding Tempest requirements for radio frequency interference suppression.

These state-of-the-art Tempest filters feature a choice of connectors, lead arrangements and single/dual circuits for AC and DC applications.

These Power Line Filters feature hermetically sealed "MS" connectors and glass sealed terminals. Each filter is required to pass MIL-STD-202 and 883 seal tests to ensure reliable performance under severe environmental conditions.

Designed to operate between  $-55^{\circ}\text{C}$  and  $+85^{\circ}\text{C}$  at 240 VAC 60 Hz line-to-line voltages, this series of filters is available up to 30 amps current ratings. Careful consideration has been given to internal construction to ensure excellent I/O

# Tempest

isolation and provide superior RF attenuation from 20 KHz to 1 GHz (and beyond!). One of two standard configurations may be selected to match filter-to-circuit impedance.

Rugged tin-plated steel enclosures are constructed for convenient bulkhead mounting with two machine screws.

These filters have been Tempest tested and approved as a RFI Power Supply-Isolator Filter for transmitter and receiver, fiber optic communication links.

The engineering staff of Filter Networks have decades of experience in the filter and noise suppression field and have been producing environmental and safety products since 1979. They are pleased to present a new and high performance line of radio frequency interface filters for the Tempest Power Line requirements.

Filter Networks' engineering staff will be pleased to discuss your filter needs!



# Power Line, Power Entry Filters for Tempest Applications



- High-power performance in a compact package
- Designed to meet demanding Tempest requirements for RFI suppression 20 KHz to 1 GHz (and beyond!)
- Operating Temperatures -55° C to +85° C
- Custom steel enclosures with bulkhead mounting to suit your needs
- Available up to 30 AMPs
- Current ratings for 240 VAC (60 Hz) line-to-line voltages
- Higher line-to-line voltage available upon request

Part Number	Current Rating	Operating Voltage (60 Hz)	Mating Connector
NF-421	1 Amp	120/240, 60 Hz	MS 3106-10SL-3S
NF-451	3 Amps	120/240, 60 Hz	MS 3106-10SL-3S
NF-459	3 Amps	120/240, 60 Hz	IEC 320
NF-513	5 Amps	120/240, 60 Hz	IEC 320
NF-549	5 Amps	120/240, 60 Hz	MS 3106-10SL-3S
NF-895	5 Amps	120/240, 60 Hz	TEC 320

**New Low Leakage**

# Tempest Line Filters "Light"



Part Number	Current Rating	Operating Voltage (60 Hz)	Mating Connector
NF-536	3 Amps	120 VAC	MS 3106-14S-7S
NF-537	5 Amps	120 VAC	MS 3106-14S-7S
NF-538	10 Amps	120 VAC	MS 3106-10-SL-3S

- Same form, fit and function as the standard Tempest Filter Line without the large line to ground capacitance
- Lower than 3.5 mA of AC leakage current as required by UL 1283 for filters used in class 1 grounded equipment @120 VAC
- Lower resistance for reduction of equipment (internal heating)
- Operating Temperatures -55° C to +85° C



# Cylindrical/Ceramic Filters

- Dependable ceramic dielectric feed thru capacitors
- Outstanding interference suppression with several cut-off frequencies
- Cylindrical Filters for Signal Line, Power Line, EMI, RFI Filtering
- Compact & durable package
- Available with a variety of I/O Terminals & Connectors
- Cylindricals are available in a variety of AC/DC voltages
- Operating Temperatures  
-55° C to +125° C



## Mechanical Information

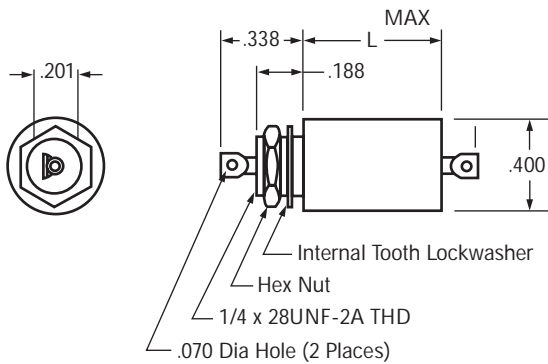


Diagram A

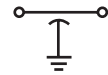


Diagram B

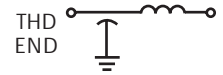


Diagram C

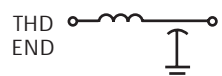


Diagram D



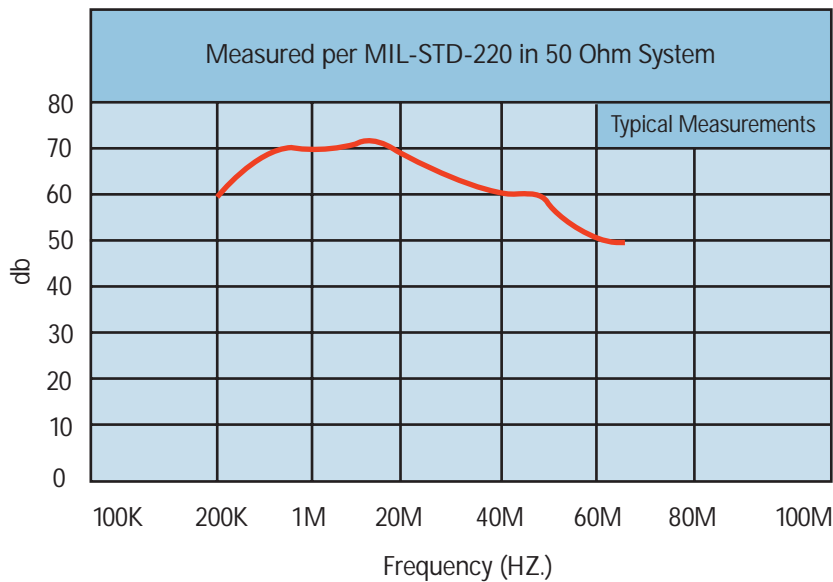
Part Number	Voltage 125° C	Pass Band	Minimum Insertion Loss (dB) Per Standard MIL-STD-220			
			20 MHz	50 MHz	100 MHz	1 GHz
CA-496	100 VDC	DC-1 MHz < 2 dB	70	70	70	70
CA-497	100 VDC	DC-10 MHz < 2 dB	12	30	48	70
CA-498	100 VDC	DC-30 MHz < 2 dB		10	30	60

# Power Entry Filters for Traffic Control



- Designed for RF protection of electrical traffic signal controllers. NF-670 has been tested and certified as an approved component for protection of traffic light control systems, in major metropolitan areas.
- Environmentally protected custom steel enclosures. Available w/optional surge protection.
- Operating Temperatures  
-55° C to +85° C
- 125 Volts, 60 Hz A.C. 35, AMP steady state

## Insertion Loss



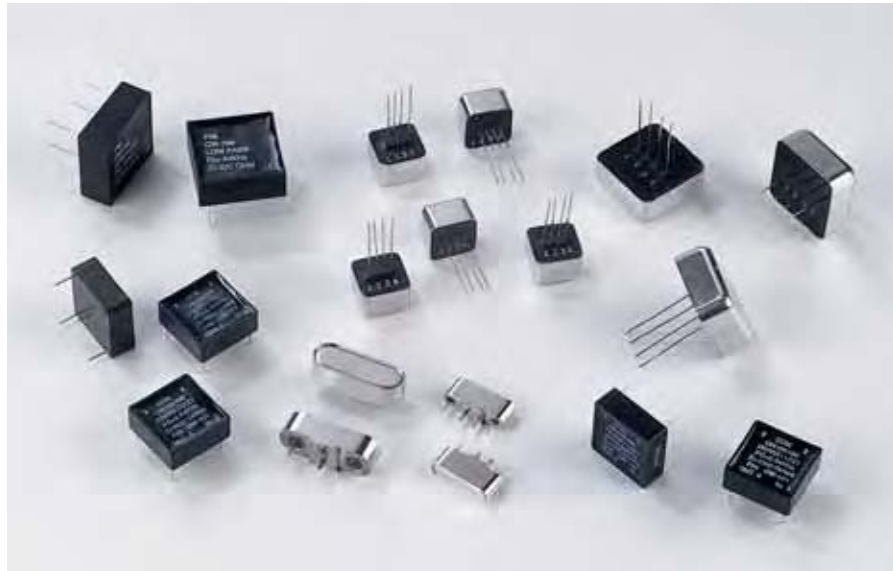
## Surge Protectors

- High end lightning strike surge protector
- Rated @48 VDC
- Custom designs to suit your surge needs



## Lowpass, Highpass and Bandpass Filters

- In surface mount configuration
- Audio, communication and telemetry applications
- Cut-off frequencies up to 1 GHz

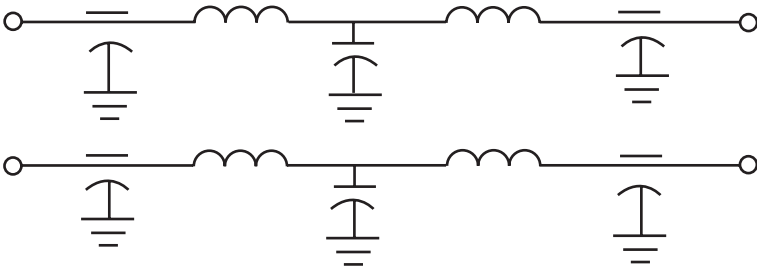




# Data Line, Control Line Filters



- Available in a variety of line-to-line & line-to-ground Impedances (i.e. 50 ohms)
- Approved for secure filter applications
- Hermetically sealed, custom steel housing and glass-metal compression terminals
- Operating Temperatures -55° C to +85° C
- Dual style DC circuits from DC to 1 GHz (and beyond)
- Standard and custom designs available



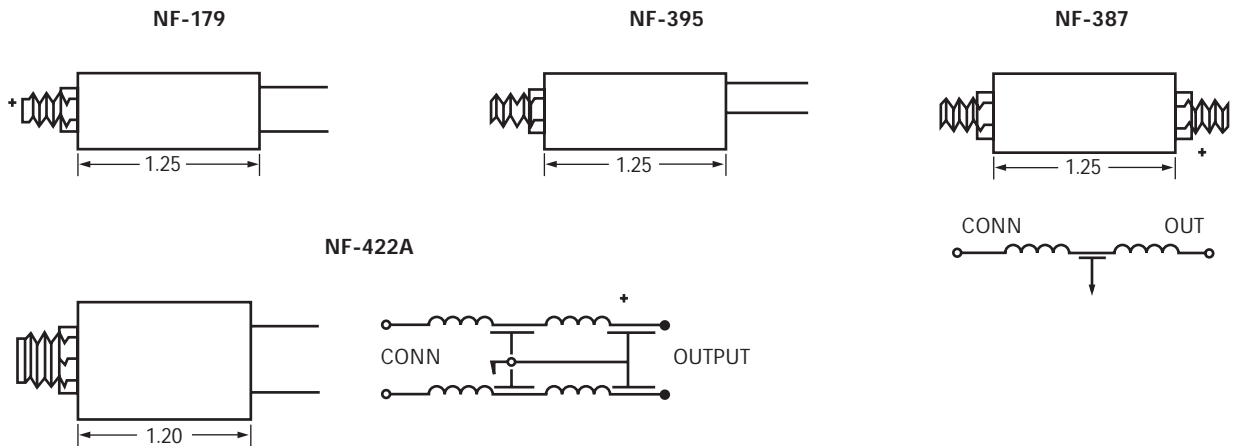
Filter Applications	Part Number	Rating	Impedance		Insertion Loss			
			Line to Line	Line to Ground	Measured per MIL-STD-220 50 Ohm/50 Ohm			
					.14 MHz	.25 MHz	.7 MHz	1MHz to 1GHz
Control Line Filters	NF 619	2 x 1A, 100 VDC	100 Ohm	50 Ohm	100 dB	100 dB	100 dB	100 dB
	NF 620	2 x 1A, 120 VDC, 60 Hz	100 Ohm	50 Ohm	100 dB	100 dB	100 dB	100 dB

# RFI Filters for Fiber Optic Couplers

- Available in single and dual circuit configurations
- Low profile packaging with connectors
- Standard and custom designs available

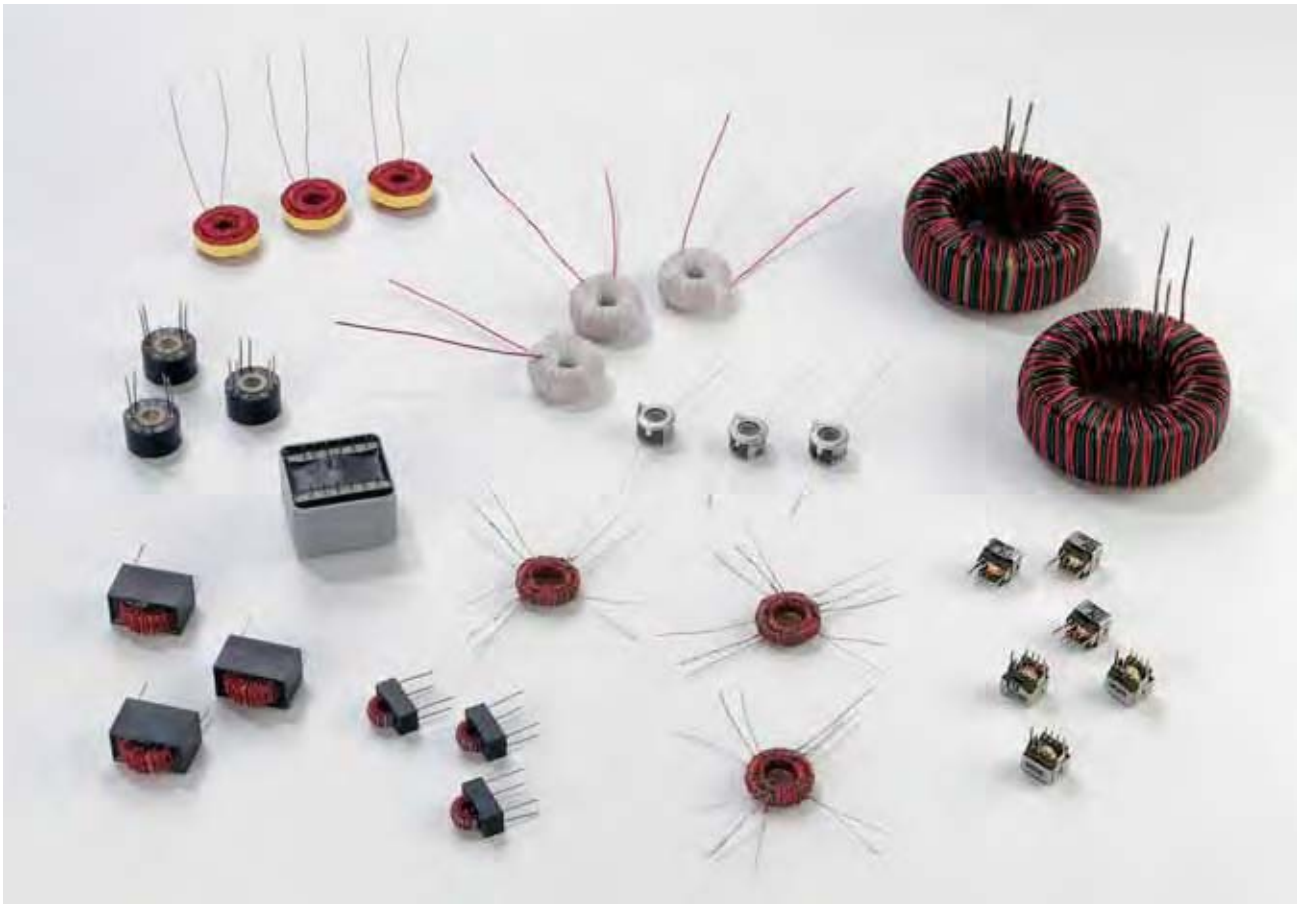


## Mechanical Information



Part Number	Operating Voltage	Current Rating	Circuit Configuration	Connector Type	Typical Insertion Loss (dB) Per MIL-STD-220						
					10 KHz	40 KHz	60 KHz	1 MHz	10 MHz	100 MHz	1 GHz
NF-179	50 VDC	400 mA	Single	274-292 Jack/Leads	50	60	70	> 70	> 70	> 70	> 70
NF-395	50 VDC	400 mA	Single	712A Jack/Leads	50	60	70	> 70	> 70	> 70	> 70
NF-387	50 VDC	400 mA	Single	712H Jack/712A Jack	50	60	70	> 70	> 70	> 70	> 70
NF-422A	20 VAC	400 mA	Dual	274-249A Jack/Leads	50	60	70	> 70	> 70	> 70	> 70

## Inductors, Transformers & Chokes



- Applications for these products range from simple chokes, inductors and transformers used in telephone equipment to sophisticated devices for commercial and military electronics
- Custom designed for your application needs
- Wide range of customized surface mount configurations (to include): EE, EP, EFD, EI, RM, pot core and toroid
- Constructed of ferrites, laminations, Mpp, high flux and cut cores





## Standard Stock Items

Part Number	Voltage	Frequency Hz	Amps	Circuits	Input Type	Output Type	Fuse	Switch	AC Leakage	50 KHz	150 KHz	300 KHz	Insertion Loss (CM/DM)			
													1 MHz	10 MHz	100 MHz	1 GHz
NF-182	120/240	60	15	2	STUD	STUD			1 uA		31/30		29/61	30/64		
NF-246	120/240	60	3	2	MS3106-14	LUG			50 mA	40	70	80	80	80	70	60
NF-247	120/240	60	5	2	MS3106-14	LUG			50 mA	34	64	70	80	80	70	70
NF-248	120/240	60	10	2	MS3106-10	LUG			50 mA	24	60	70	80	80	70	70
NF-317	120/240	60	3	2	MS3106-14	LUG			50 mA	40	70	80	80	80	70	60
NF-322	120/240	60	25	2	STUD	STUD			5 mA	70	80	80	80	80	80	80
NF-324	120/240	60	25	2	STUD	STUD			5 mA	70	80	80	80	80	80	80
NF-330	120/240	60	3	2	STUD	STUD			5 mA	70	80	80	80	80	80	80
NF-349	120/240	60	10	2	MS3106-14	LUG			50 mA	24	60	70	80	80	70	70
NF-353	120/240	60	10	2	LUG	LUG			50 mA	24	60	70	80	80	70	70
NF-394	120/240	400	20	3PH	Term Block	Term Block			4 mA	1/10	31/27	46/44	60/50	60/50		
NF-419	120/240	60	10	2	MS3106-10	LUG			50 mA	40	70	80	80	80	70	60
NF-421	120/240	60	1	2	MS3106-10	LUG	X		50 mA	24	60	70	80	80	70	70
NF-443	120/240	60	15	2	MS3106-16	LUG			50 mA	11	52	70	80	80	70	70
NF-446	120/240	60	5	2	IEC	LUG	X	X	50 mA	34	64	70	80	80	70	70
NF-451	120/240	60	3	2	MS3106-10	LUG	X		50 mA	40	70	80	80	80	70	60
NF-452	120/240	60	6	4	MS3106-14	LUG			50 mA	24	60	70	80	80	70	70
NF-453	120/240	60	10	2	IEC	LUG	X	X	1 mA	53/20	80/80	80/80	80/80	80/80	80/60	80/
NF-458	120/240	60	5	2	MS3106-10	LUG			50 mA	34	64	70	80	80	70	70
NF-459	120/240	60	3	2	IEC	LUG	X		50 mA	34	64	70	80	80	70	70
NF-463	120/240	60	5	2	STUD	STUD			5 mA	70	80	80	80	80	80	80
NF-471	120/240	60	3	2	IEC	LUG	X	X	2.6 mA							
NF-485	120/240	60	3	2	IEC	LUG	X	X	50 mA	40	70	80	80	80	70	60
NF-490	120/240	60	3	2	MS3106-14	LUG			50 mA	40	70	80	80	80	70	60
NF-491	120/240	60	5	2	MS3106-10	LUG			50 mA	34	64	70	80	80	70	70
NF-494	120/240	400	5	2	MS3106-10	LUG			50 mA	40	70	80	80	80	70	60
NF-501	120/240	60	2	2	PWR CORD	LUG	X	X	80 mA	95	100	100	100	80	80	80
NF-502	120/240	60	15	2	MS3102-16	LUG			50 mA	11	52	70	80	80	70	70
NF-513	120/240	60	5	2	IEC	LUG	X		50 mA	24	60	70	80	80	70	70
NF-520	120/240	60	2	2	IEC	LUG	X	X	80 mA	95	100	100	100	80	80	80
NF-522	120/240	60	6	2	MS3113-12	LUG			50 mA	64	70	80	80	70	70	
NF-526	120/240	60	10	2	LUG	LUG			3.5 mA	28/38	61/65	79/77	80/80	80/80	70/	70/
NF-527	50	DC	10	2	LUG	LUG				38	50	59	80	70	70	70
NF-528	120/240	60	2	2	IEC	LEAD			3.0 mA	17/	29/15	37/22	50/40	80/25	40/18	
NF-529	120	60	5	2	MS3400-16	STUD			500 mA	80	100	100	100	100	100	100
NF-530	440	60	8	3PH	MS3400-20	STUD			500 mA	80	100	100	100	100	100	100
NF-531	100	DC	2	2	LUG	LUG					20	31	53	80	80	80
NF-534	120/240	60	3	2	LUG	LUG			2.6 mA							
NF-536	120/240	60	3	2	MS3106-14	LUG			3.5 mA	40/16	70/48	80/60	80/70	80/70	60/	60/
NF-537	120/240	60	5	2	MS3106-14	LUG			3.5 mA	35/16	68/48	80/60	80/70	80/70	60/	60/
NF-538	120/240	60	10	2	MS3106-10	LUG			3.5 mA	40/16	70/48	80/60	80/70	80/70	60/	60/
NF-540	120/240	400	3	3PH	LUG	LUG										

Part Number	Voltage	Frequency Hz	Amps	Circuits	Input Type	Output Type	Fuse	Switch	AC Leakage	50 KHz	150 KHz	300 KHz	Insertion Loss (CM/DM)			
													1 MHz	10 MHz	100 MHz	1 GHz
NF-547	120/240	60	5	2	MS3106-10	LUG			3.5 mA	35/16	68/48	80/60	80/70	80/70	70/	60/
NF-549	120/240	60	5	2	MS3106-10	LUG	X		50 mA	34	64	70	80	80	70	70
NF-552	120	60	10	2	MS3102-14	MS3102-14S			80 mA	100	100	100	100	60		
NF-554	120	60	5	2	LUG	LUG			2.5 mA		20	35	60	60	80	80
NF-557	200	DC	20	2	STUD	LUG					15	17	30	50	75	70
NF-558	240	60	10	2	LEAD	CASE						1	10	40		
NF-567	120/240	60	10	2	STUD	STUD			1.0 mA	70	80	80	80	80	80	80
NF-575	120/240	400	20	2	STUD	STUD			500 uA							
NF-592	120/240	60	3	2	PWR CORD	LEAD			2.0 mA		14/6	38/18	70/54	80/80	80/	80/
NF-594	120/240	60	5	2	MS3106-14	LUG			50 mA	34	64	70	80	80	70	70
NF-599	208	400	36	3PHD	MS3102-22	MS3102-22S			1.56 A							
NF-616	120/240	60	100	3PHD	STUD	STUD			3.0 mA							
NF-619	100	DC	1.5	2	LUG	LUG				100	100	100	100	100	100	100
NF-620	120	60	1.0	2	LUG	LUG			600 mA	100	100	100	100	100	100	100
NF-628	28	DC	30	1	STUD	STUD				60	80	70	70	70	70	70
NF-629	120/240	60	3	2	IEC	LEAD			3.0 mA	8.5/13	22/17	47/30	70/70	70/70	70/	70/
NF-670	120	60	35	1	STUD	STUD			150 mA		20	50	50	50	50	
NF-671	120/240	60	15	2	MS3106-14	LUG			3.5 mA	40/16	70/48	80/60	80/70	80/70	60/	60/
NF-672	120/240	60	6	2	IEC	QUICK			3.5 mA	40/16	70/48	80/60	80/70	80/70	60/	60/
NF-676	120/240	60	3	2	PWR CORD	LEAD	X	X	3.5 mA		4	29	80	80	80	80
NF-687	240/440	60	100	3PHD	STUD	STUD			3.5 mA							
NF-721	240/440	60	60	3PHD	STUD	STUD			3.5 mA							
NF-727	120/240	60	3	2	PWR CORD	LEAD	X		2.0 mA							
NF-732	120/240	60	8	2	IEC	QUICK	X	X	3.5 mA	64/47	80/80	80/80	80/80	80/80	80/80	80/80
NF-734	120/240	60	3	2	PWR CORD	LEAD			3.5 mA		32/24	48/80	65/80	80/80	80/80	80/
NF-735	120/240	60	6.25	2	PWR CORD	LEAD			3.5 mA	20/30	55/60	80/80	80/80	80/80	80/	80/
NF-736	120/240	60	2	2	PWR CORD	LEAD			3.5 mA		32/28	48/80	65/80	90/80	80/80	80/
NF-741	120/240	60	50	2	STUD	STUD			100 uA							
NF-745	120/240	60	10	2	MS3106-10	LUG			3.5 mA	53/20	80/80	80/80	80/80	80/80	80/60	80/
NF-747	208	60	47	3PHD	STUD	STUD			5.0 mA	30/24	52/55	60/60	80/80	40/50	20/50	
NF-748	120/240	60	2	2	PWR CORD	LEAD		X	3.5 mA	37/38	70/67	80/80	80/80	80/80	80/80	80/
NF-760	120	60	25	2	MS3102-20	STUD			100 mA	25	40	70	70	70	70	70
NF-761	120/240	60	3	2	IEC	LUG	X		3.5 mA	50/34	70/60	70/70	70/70	70/60	70/	70/
NF-763	28	DC	10	2	MS3106-14	STUD				72/60	70/70	80/70	80/70	80/70	70/60	70/60
NF-765	120/240	60	10	2	MS27468-13	LEAD			3.5 mA	40/40	80/80	90/90	90/90	90/90	90/	90/
NF-766	120	400	3	2	LUG	LUG			200 mA		80	80	80	80	80	
NF-773	120/240	60	15	2	QUICK	QUICK			3.5 mA	40/4	75/45	80/65	80/80	80/80	80/60	80/
NF-776	120/240	60	3	2	MS3474-12	LUG			3.5 mA	40/20	70/50	80/80	80/80	80/80	80/60	80/
NF-780	120/240	60	15	2	MS3106-14	LUG			3.5 mA	40/20	70/50	80/80	80/80	80/80	80/60	80/
NF-795	120	60	3	2	QUICK	QUICK			200 mA							
NF-802	120/240	60	10	2	LEAD	LEAD			250 uA	0/18	0/28	1.5/41	6/45	25/55	35/55	50/



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