



FEATURES

- UL60950 Reinforced Insulation
- ANSI/AAMI ES60601-1, 2 MOOP's recognition pending
- 4:1 Wide range voltage input³
- Operating temperature range -40°C to 85°C
- 5.2kVDC isolation 'Hi Pot Test'
- Typical efficiency to 88%
- 5V, 12V & 48V Nominal input
- Power density 0.94W/cm³
- 5mm creepage guaranteed
- Under voltage lock out
- Control pin option

PRODUCT OVERVIEW

The NCM6 series of DC/DC converters offers single & dual output voltages from wide input voltage ranges ranges of 4.5-9, 9-36V & 18-75V.. The NCM6 is housed in an industry standard package with a standard pinout. The NCM6 is encapsulated for superior thermal performance.

Applications include medical, telecommunication battery powered systems, process control and distributed power systems.

SELECTION GUIDE

Order Code ¹	Input Voltage	Output Voltage	Output Current	Efficiency		Efficiency		Isolation Capacitance	MTTF ²
	Nom.			5V or 12V or 48V		24V Input			
	V	V	A	Min. %	Typ. %	Min. %	Typ. %	pF	Hrs
NCM6D0505C	5	±5	±0.6	78	80			10	492,600
NCM6D0512C	5	±12	±0.25	81	83			15	537,754
NCM6D0515C	5	±15	±0.2	81	83			15	462,042
NCM6S0503C	5	3.3	1.52	73	75			15	548,686
NCM6S0505C	5	5	1.2	77	80			15	576,445
NCM6S0512C	5	12	0.5	80	82			20	608,806
NCM6S0515C	5	15	0.4	80	82			15	566,572
NCM6D1205C	12	±5	±0.6	81	83	79	80	15	285,466
NCM6D1212C	12	±12	±0.25	86	88	81	84	25	412,808
NCM6D1215C	12	±15	±0.2	85	87	82	84	25	366,356
NCM6S1203C	12	3.3	1.52	75	79	74	77	12	685,045
NCM6S1205C	12	5	1.2	81	82	79	80	15	475,352
NCM6S1212C	12	12	0.5	84	86	81	83	25	490,876
NCM6S1215C	12	15	0.4	85	87	82	84	25	457,651
NCM6D4805C	48	±5	±0.6	77	80	79	81	10	393,923
NCM6D4812C	48	±12	±0.25	78	82	82	84	22	444,419
NCM6D4815C	48	±15	±0.2	81	83	84	86	25	409,328
NCM6S4803C	48	3.3	1.52	71	74	71	76	12	552,818
NCM6S4805C	48	5	1.2	74	78	75	80	15	467,793
NCM6S4812C	48	12	0.5	79	82	83	84	20	520,610
NCM6S4815C	48	15	0.4	81	83	85	86	25	499,288

SELECTION GUIDE (Continued)

Order Code	Input Current				Ripple & Noise
	0% Load	100% Load	0% Load	100% Load	
	Typ. 5V, 12V or 48V Input mA	mA	Typ. 24V Input mA	mA	Typ. mVp/p
NCM6D0505C	20	1500			20
NCM6D0512C	25	1450			20
NCM6D0515C	30	1450			15
NCM6S0503C	8	1300			10
NCM6S0505C	20	1500			20
NCM6S0512C	25	1500			90
NCM6S0515C	30	1500			90
NCM6D1205C	11	600	9	310	100
NCM6D1212C	13	560	12	300	100
NCM6D1215C	15	570	13	300	100
NCM6S1203C	10	525	9	270	60
NCM6S1205C	10	610	9	315	25
NCM6S1212C	15	575	12	300	70
NCM6S1215C	15	575	13	300	105
NCM6D4805C	6	160	7	310	150
NCM6D4812C	8	150	9	300	100
NCM6D4815C	8	150	10	300	150
NCM6S4803C	10	140	7	275	30
NCM6S4805C	10	160	7	300	25
NCM6S4812C	10	150	9	300	70
NCM6S4815C	10	150	10	300	95

1 To order with optional control pin insert an 'E' prior to the suffix C, i.e. NCM6S1205EC.

2 Calculated using MIL-HDBK-217F FN2, parts stress method with nominal input voltage at full load.

3. 5V inputs have a 2:1 input range.

All specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified.



INPUT CHARACTERISTICS					
Parameter	Conditions	Min.	Typ.	Max.	Units
Voltage range	NCM6X05	4.5	5	9	V
	NCM6X12	9	12	36	
	NCM6X48	18	48	75	
Under voltage lock out	Turn on threshold NCM6X05		4.2		V
	Turn off threshold NCM6X05		3.6		
	Turn on threshold NCM6X12		8.2		
	Turn off threshold NCM6X12		6.5		
	Turn on threshold NCM6X48		14		
	Turn off threshold NCM6X48		13.7		
Reflected ripple current	All variants		10		mA p-p

ISOLATION CHARACTERISTICS					
Parameter	Conditions	Min.	Typ.	Max.	Units
Isolation test voltage	Flash tested	5200			VDC
Resistance	Viso = 1kVDC	1			GΩ

OUTPUT CHARACTERISTICS						
Parameter	Conditions	Min.	Typ.	Max.	Units	
Rated power	5V, 12V & 15V output types			6	W	
	3.3V output types			5		
Voltage set point accuracy	D4812C & D4815C, SXX03C, SXX12C & SXX15C			±2	%	
	SXX05C			±2.5		
	D1212C & D1215C			±3		
	D0505C, D0512C, D0515C, D1205C & D4805C	Positive		±2		
		Negative		±3		
Line regulation	Low line to high line	Single	0.1	0.5	%	
		Dual	0.1	0.75		
Load Regulation	10% total load to 100% total load	NCM6xxx03C, D0512C & D0515C	0.5	1	%	
		NCM6xxx05C	0.3	1		
		NCM6Sxx12C, NCM6Sxx15C, D1212C, D1215C, D4812C & D4815C	0.06	0.5		
Cross Regulation	% voltage change on negative output when positive load varies from 12.5% to 37.5% with negative load fixed at 50%	5V		5	%	
		12V & 15V		3		
Minimum output load for specification (see application notes)	10% of rated load					
Transient Response	Peak deviation - Single Output (25-75% & 75-25% swing) - Dual Output (12.5-37.5% & 37.5-12.5% swing)				%Vout	
	SXX03C		10			
	SXX05C		8			
	S4815		2			
	D0505, S0512 & S0515		5			
	D0512 & D0515		2			
	D1205		6			
	D1212, D1215 & S4812		3			
	D4805 & D4815		9			
	D4812		1			
	S1212 & S1215		4			
	Settling time (within 1% Vout Nom.)		250			μs

ABSOLUTE MAXIMUM RATINGS

Short-circuit protection (for SELV input voltages)	Continuous
Lead temperature 1.0mm from case for 10 seconds (to JEDEC JESD22-B106 ISS C)	260°C
Input voltage, NCM6X05	10V
Input voltage, NCM6X12	40V
Input voltage, NCM6X48	80V
Control pin input voltage	±20V

GENERAL CHARACTERISTICS¹

Parameter	Conditions	Min.	Typ.	Max.	Units
Switching frequency			300		kHz
Control pin input	Module on (or pin unconnected)			1.0	V
	Module off	3.0			

TEMPERATURE CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.	Units
Operation		-40		85	°C
Storage		-50		125	
Case temperature rise above ambient	D0515, D1212, D1215, D4815, S1212, S1215, S4812, S4815		35		
	D0512, D4812, S1203, S1205		40		
	D0505, D1205, D4805, S0503, S0512, 0515, 4803, 4805		45		
	S0505C		47		
Thermal shutdown	Case Temperature		+105		

RoHS COMPLIANCE INFORMATION



This series is compatible with RoHS soldering systems with a peak wave solder temperature of 260°C for 10 seconds. The pin termination finish on this product series is a Gold flash (0.05-0.10 micron) over Nickel Preplate. The series is backward compatible with Sn/Pb soldering systems. For further information, please visit www.murata-ps.com/rohs

APPLICATION NOTES

Output Capacitance and start-up times

The NCM6 series does not require output capacitors to meet datasheet specification. To meet datasheet specification, output capacitance should not exceed:

Part No.	Maximun Load Capacitance (per output)	Start-up times
	µF	ms
NCM6D0505C	220	6
NCM6D0512C	100	12
NCM6D0515C	100	18
NCM6S0503C	470	4
NCM6S0505C	220	7
NCM6S0512C	100	12
NCM6S0515C	100	17
NCM6D1205C	220	5
NCM6D1212C	100	12
NCM6D1215C	100	17
NCM6S1203C	470	2
NCM6S1205C	220	6
NCM6S1212C	100	14
NCM6S1215C	100	17
NCM6D4805C	220	10
NCM6D4812C	100	40
NCM6D4815C	100	60
NCM6S4803C	470	2
NCM6S4805C	220	5
NCM6S4812C	100	15
NCM6S4815C	100	20

Control Pin

This provides an OFF function which puts the converter into a low power mode when >3V is applied to the pin. When the control pin is left un-connected or less than 1V the converter is ON

Minimum Load

The minimum load to meet full datasheet specification is 10% of the full rated load across the specified input voltage range.

Between 0% and 10% output loading, the output voltage will remain within data sheet specification however, output ripple and noise may increase but will still be below 150mV p-p.

TECHNICAL NOTES

ISOLATION VOLTAGE

'Hi Pot Test', 'Flash Tested', 'Withstand Voltage', 'Proof Voltage', 'Dielectric Withstand Voltage' & 'Isolation Test Voltage' are all terms that relate to the same thing, a test voltage, applied for a specified time, across a component designed to provide electrical isolation, to verify the integrity of that isolation.

Murata Power Solutions NCM6 series of DC/DC converters are all 100% production tested at their stated isolation voltage. This is 5.2kVDC for 1 second.

A question commonly asked is, "What is the continuous voltage that can be applied across the part in normal operation?"

The NCM6 series has been recognized by Underwriters Laboratory to 250Vrms for Reinforced Insulation.

REPEATED HIGH-VOLTAGE ISOLATION TESTING

It is well known that repeated high-voltage isolation testing of a barrier component can actually degrade isolation capability, to a lesser or greater degree depending on materials, construction and environment. We therefore strongly advise against repeated high voltage isolation testing, but if it is absolutely required, that the voltage be reduced by 20% from specified test voltage.

SAFETY APPROVAL

ANSI/AAMI ES60601-1

The NCM6 series is pending recognition by Underwriters Laboratory (UL) to ANSI/AAMI ES60601-1 and provides 2 MOOP (means of operator protection) based upon a working voltage of 250 Vrms max., between Primary and Secondary.

UL 60950

The NCM6 series has been recognised by Underwriters Laboratory (UL) to UL 60950 for reinforced insulation to a working voltage of 250Vrms.

FUSING

The NCM6 Series of converters are not internally fused so to meet the requirements of UL an anti-surge input line fuse should always be used with ratings as defined below.

Input Voltage, 5V 3A

Input Voltage, 12V 2A

Input Voltage, 48V 1A

All fuses should be UL recognised and rated to at least the maximum allowable DC input voltage.

CHARACTERISATION TEST METHODS

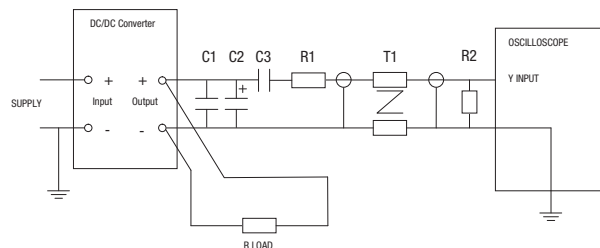
Ripple & Noise Characterisation Method

Ripple and noise measurements are performed with the following test configuration.

C1	1µF X7R multilayer ceramic capacitor, voltage rating to be a minimum of 3 times the output voltage of the DC/DC converter
C2	10µF tantalum capacitor, voltage rating to be a minimum of 1.5 times the output voltage of the DC/DC converter with an ESR of less than 100mΩ at 100 kHz
C3	100nF multilayer ceramic capacitor, general purpose
R1	450Ω resistor, carbon film, ±1% tolerance
R2	50Ω BNC termination
T1	3T of the coax cable through a ferrite toroid
RLOAD	Resistive load to the maximum power rating of the DC/DC converter. Connections should be made via twisted wires

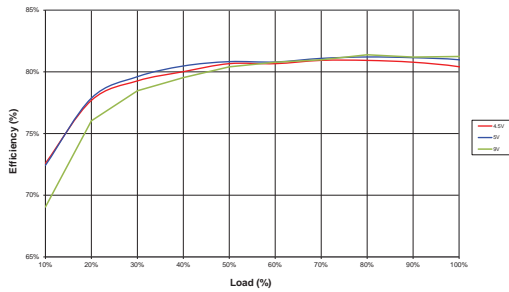
Measured values are multiplied by 10 to obtain the specified values.

Differential Mode Noise Test Schematic

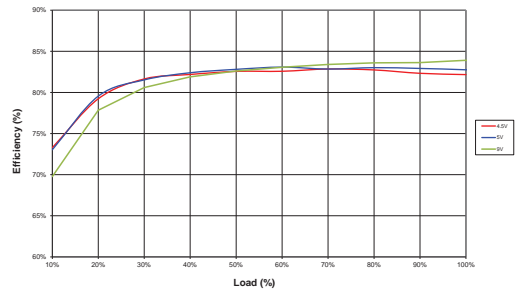


EFFICIENCY VS LOAD

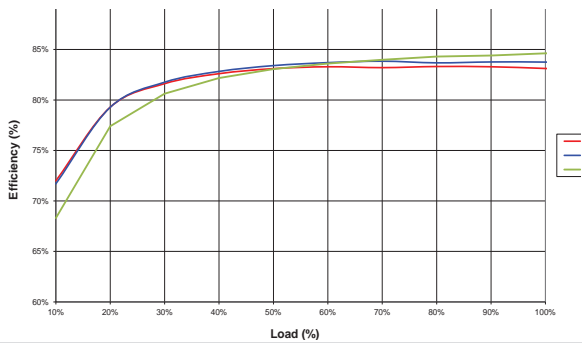
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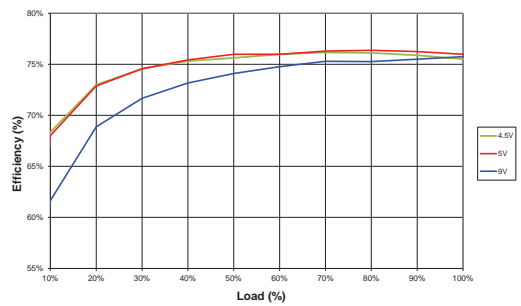
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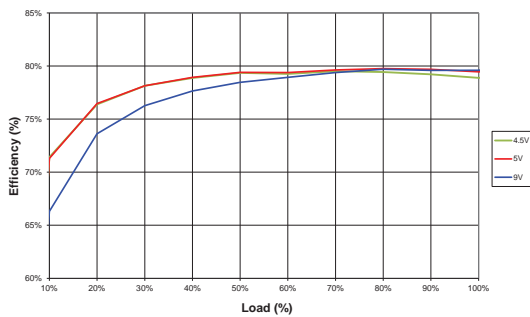
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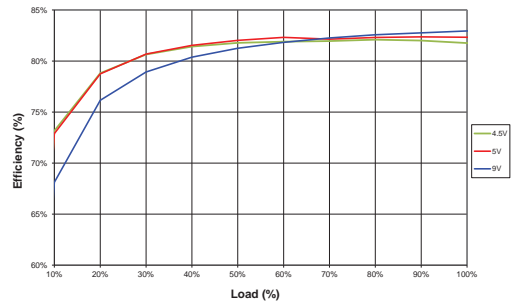
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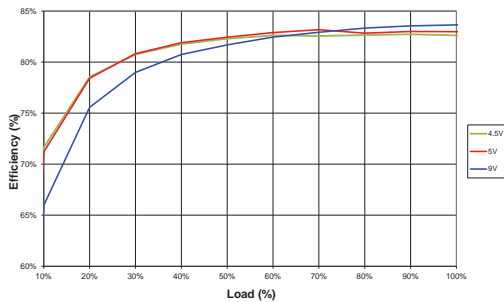
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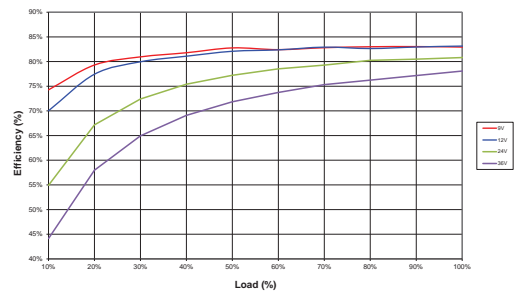
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NCM6S0515C

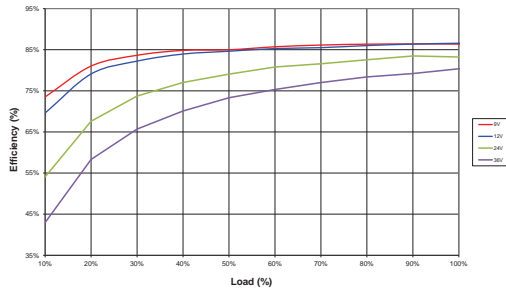


NCM6D1205C

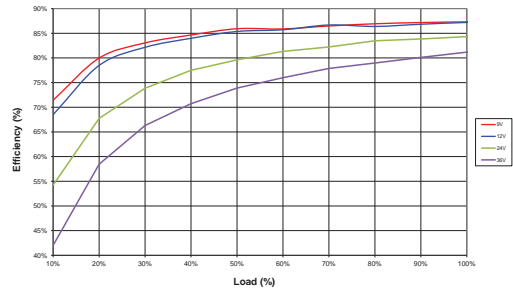


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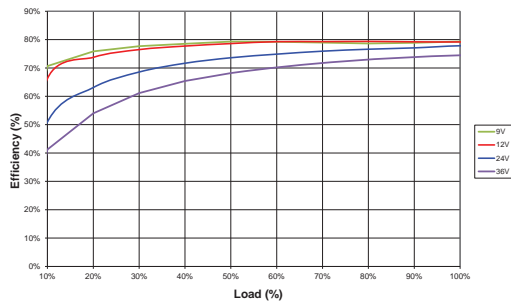
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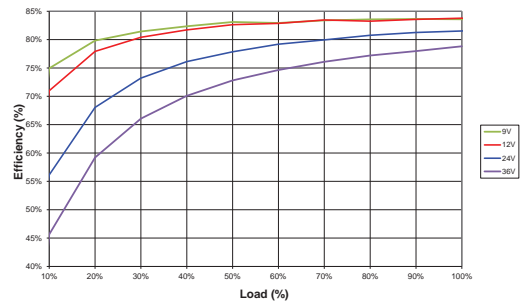
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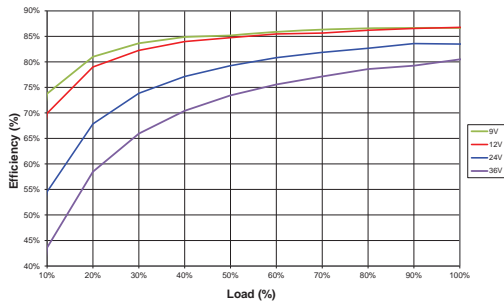
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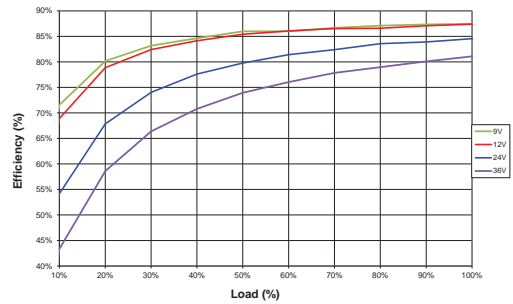
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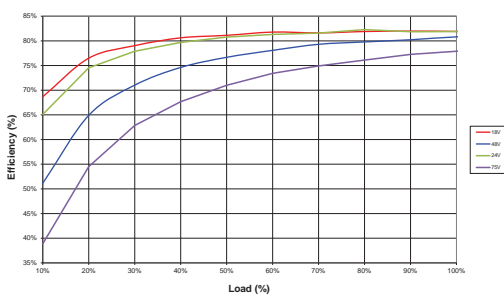
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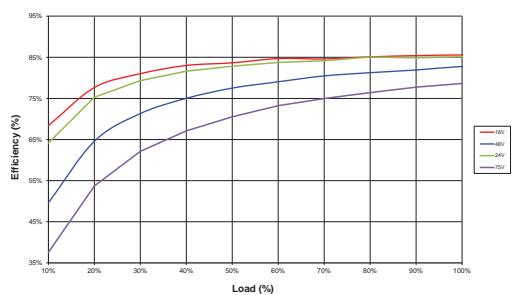
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NCM6D4805C

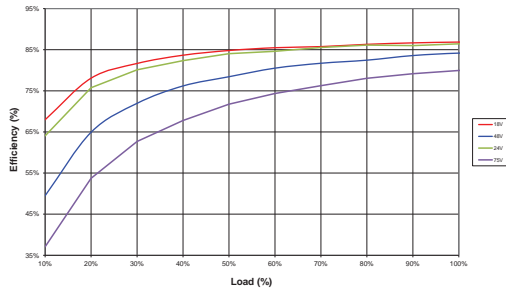


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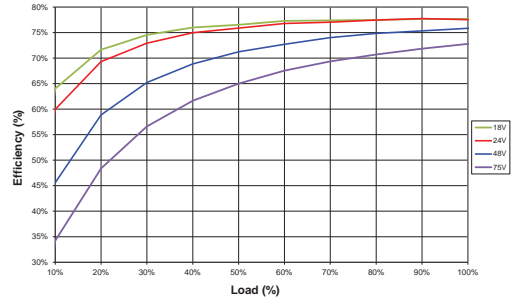


EFFICIENCY VS LOAD

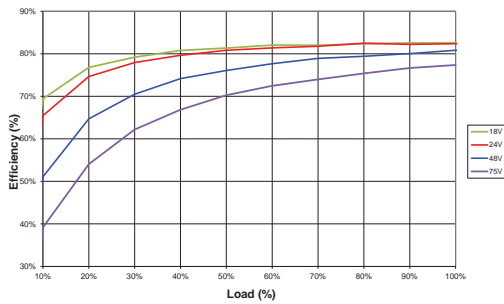
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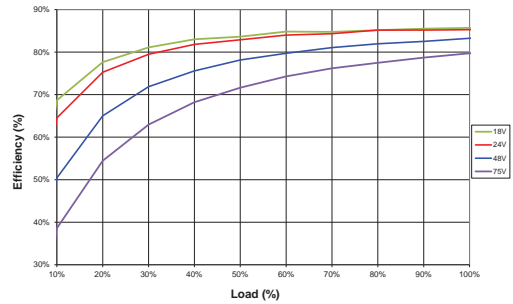
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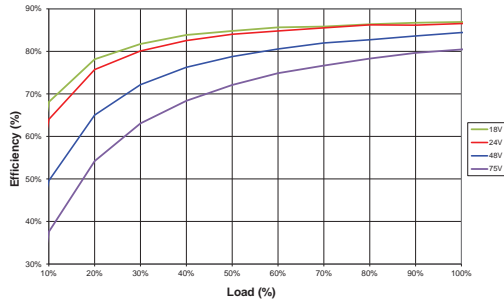
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NCM6S4812C

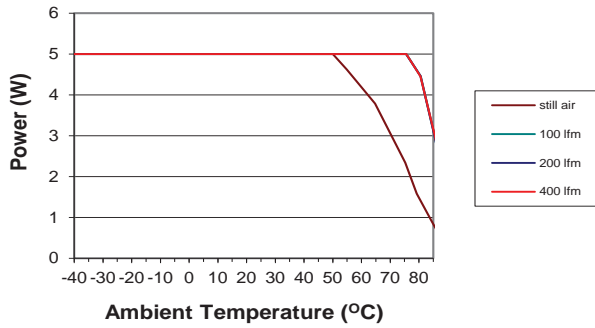


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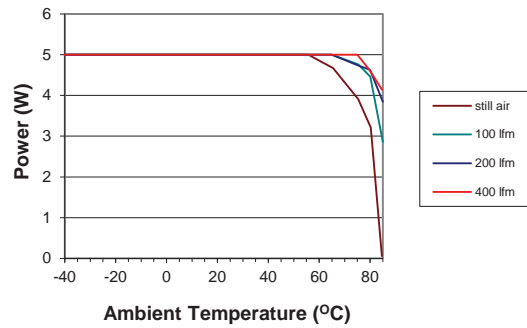


TEMPERATURE DERATING

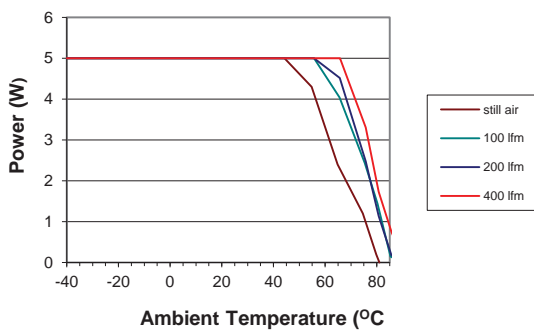
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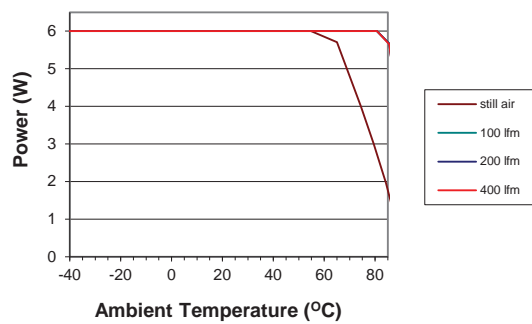
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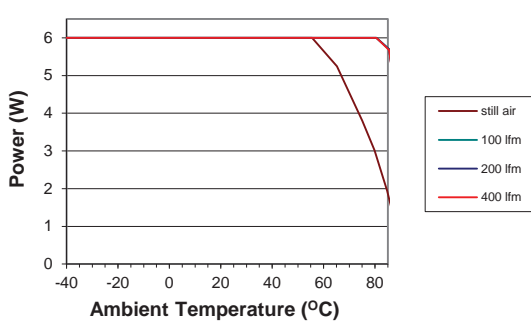
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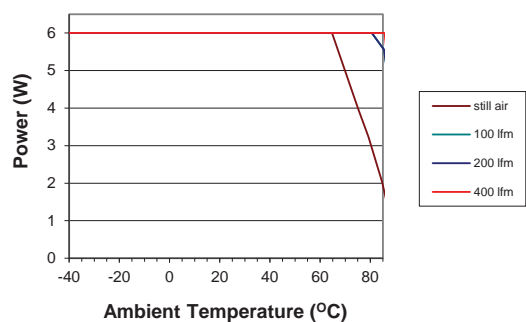
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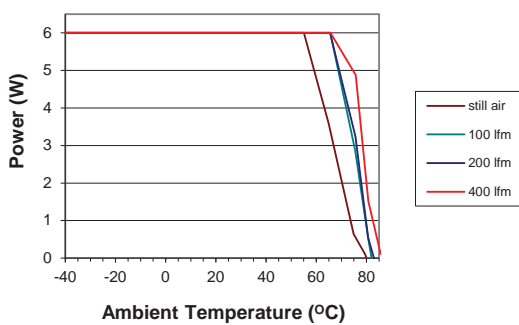
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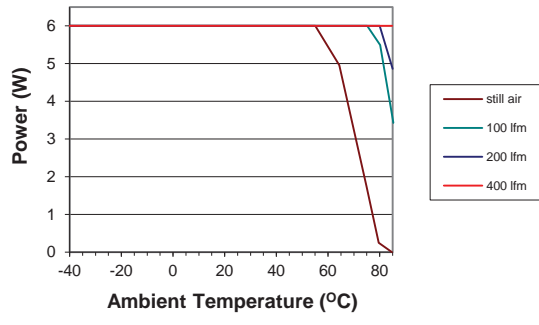
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NCM6X1205C

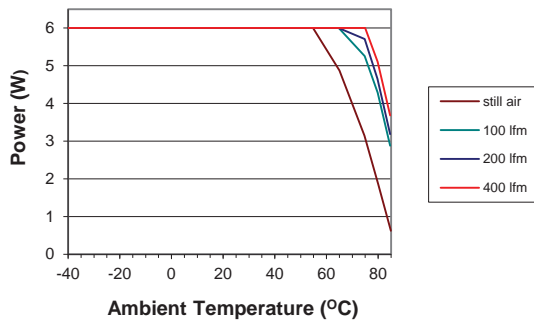


NCM6X1212C

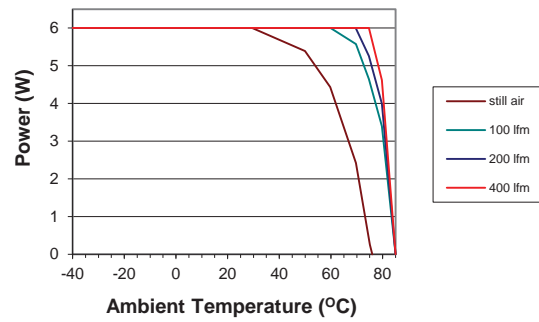


TEMPERATURE DERATING

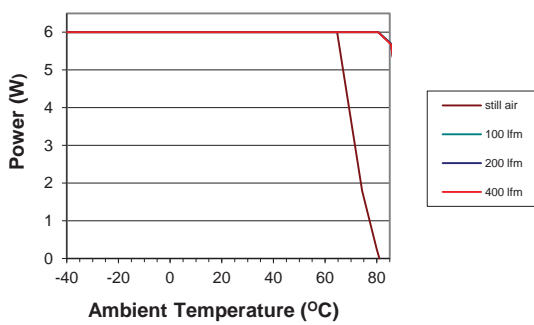
NCM6X1215C



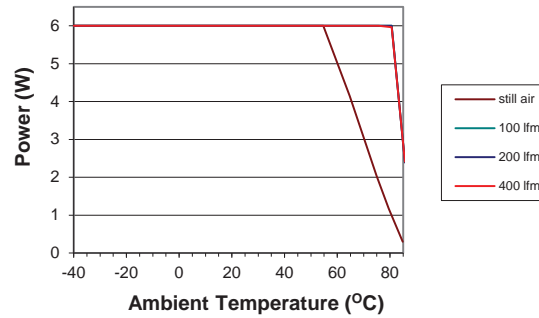
NCM6X4805C



NCM6X4812C



NCM6X4815C



EMC FILTERING AND SPECTRA

FILTERING

The module includes a basic level of filtering, sufficient for many applications. Where lower noise levels are desired, filters can easily be added to achieve any required noise performance.

A DC/DC converter generates noise in two principle forms: that which is radiated from its body and that conducted on its external connections. There are three separate modes of conducted noise: input differential, output differential and input-output.

This last appears as common mode at the input and the output, and cannot therefore be removed by filtering at the input or output alone. The first level of filtering is to connect capacitors between input and output returns, to reduce this form of noise. It typically contains high harmonics of the switching frequency, which tend to appear as spikes on surrounding circuits. The voltage rating of this capacitor must match the required isolation voltage. (Due to the great variety in isolation voltage and required noise performance, this capacitor has not been included within the converter.)

Input ripple is a voltage developed across the internal Input decoupling capacitor. It is therefore measured with a defined supply source impedance. Although simple series inductance will provide filtering, on its own it can degrade the stability. A shunt capacitor is therefore recommended across the converter input terminals, so that it is fed from a low impedance.

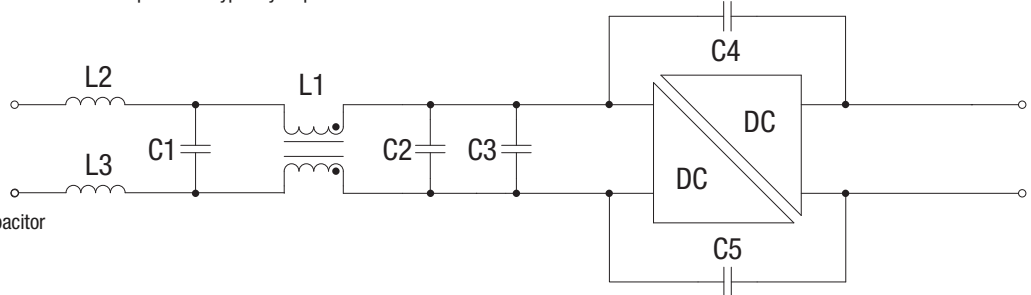
If no filtering is required, the inductance of long supply wiring could also cause a problem, requiring an input decoupling capacitor for stability. An electrolytic will perform well in these situations. The input-output filtering is performed by the common-mode choke on the primary. This could be placed on the output, but would then degrade the regulation and produce less benefit for a given size, cost, and power loss.

Radiated noise is present in magnetic and electrostatic forms. Thanks to the small size of these units, neither form of noise will be radiated "efficiently", so will not normally cause a problem. Any question of this kind usually better repays attention to conducted signals.

EMC FILTERING AND SPECTRA

EMC FILTER AND VALUES TO OBTAIN SPECTRA AS SHOWN

The following filter circuit and filter table shows the input filters typically required to meet EN55022 Quasi-Peak Curve A or B.



- C1, C2** Polyester or ceramic capacitor
- C3** Electrolytic capacitor
- C4 & C5** 250 VAC Y Rated

TO MEET CURVE B

Part Number	C1	C2	C3	C4	C5	L1	L2	L3
NCM6S0503C	1µF	1µF	1000µF	10nF	10nF	51105C	20µH	Not required
NCM6S0505C	1µF	1µF	1000µF	10nF	10nF	51105C	60µH	Not required
NCM6S0512C	1µF	1µF	1000µF	15nF	15nF	51305C	60µH	60µH
NCM6S0515C	1µF	1µF	1000µF	15nF	15nF	51305C	60µH	60µH
NCM6D0505C	1µF	1µF	1000µF	10nF	10nF	51105C	20µH	Not required
NCM6D0512C	1µF	1µF	1000µF	10nF	10nF	51105C	20µH	Not required
NCM6D0515C	1µF	1µF	1000µF	10nF	10nF	51105C	20µH	Not required
NCM6S1203C	1µF	1µF	47µF	10nF	10nF	51105C	Not required	Not required
NCM6S1205C	1µF	1µF	47µF	10nF	10nF	51105C	60µH	Not required
NCM6S1212C	1µF	1µF	47µF	10nF	10nF	51105C	20µH	Not required
NCM6S1215C	1µF	1µF	47µF	10nF	10nF	51105C	20µH	Not required
NCM6D1205C	1µF	1µF	47µF	10nF	10nF	51105C	Not required	Not required
NCM6D1212C	1µF	1µF	47µF	10nF	10nF	51105C	Not required	Not required
NCM6D1215C	1µF	1µF	47µF	10nF	10nF	51105C	20µH	Not required
NCM6S4803C	1µF	1µF	47µF	10nF	10nF	51105C	Not required	Not required
NCM6S4805C	1µF	1µF	47µF	10nF	10nF	51505C	Not required	Not required
NCM6S4812C	1µF	1µF	47µF	10nF	10nF	51505C	Not required	Not required
NCM6S4815C	1µF	1µF	47µF	10nF	10nF	51505C	Not required	Not required
NCM6D4805C	1µF	1µF	47µF	10nF	10nF	51505C	Not required	Not required
NCM6D4812C	1µF	1µF	47µF	10nF	10nF	51505C	60µH	Not required
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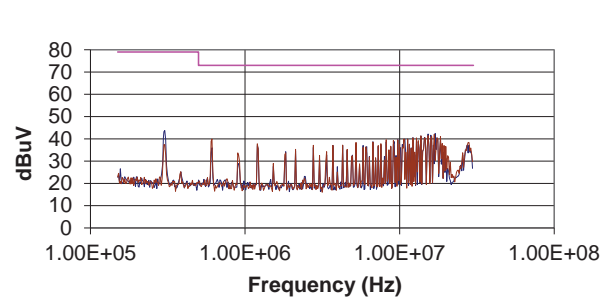
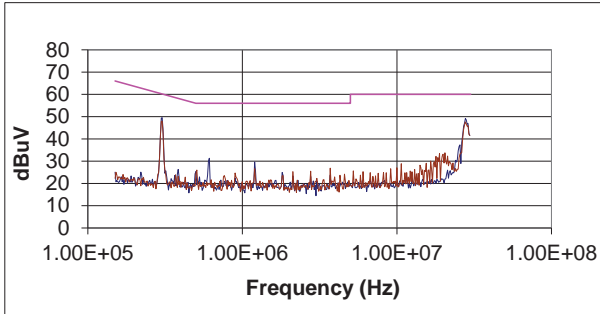
EMC FILTERING AND SPECTRA

TO MEET CURVE A

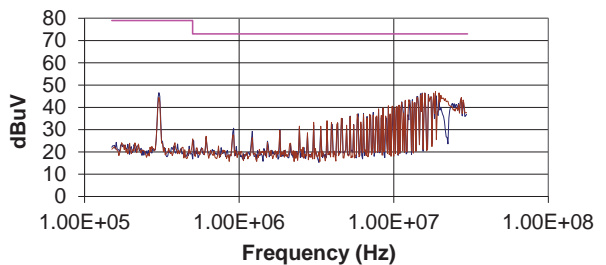
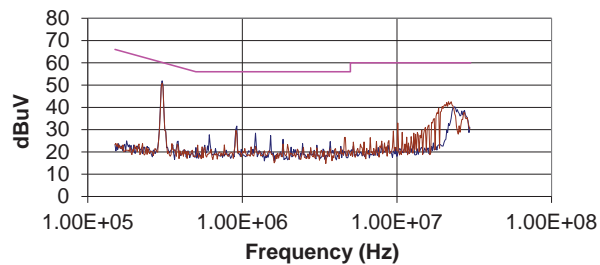
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NCM6S0505C	1 μ F	1 μ F	1000 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S0512C	1 μ F	1 μ F	1000 μ F	Not required	Not required	51305C	60 μ H	60 μ H
NCM6S0515C	1 μ F	1 μ F	1000 μ F	Not required	Not required	51305C	60 μ H	60 μ H
NCM6D0505C	1 μ F	1 μ F	1000 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6D0512C	1 μ F	1 μ F	1000 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6D0515C	1 μ F	1 μ F	1000 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S1203C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S1205C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S1212C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S1215C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6D1205C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6D1212C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6D1215C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S4803C	1 μ F	1 μ F	47 μ F	Not required	Not required	51105C	60 μ H	60 μ H
NCM6S4805C	1 μ F	1 μ F	47 μ F	Not required	Not required	51505C	60 μ H	60 μ H
NCM6S4812C	1 μ F	1 μ F	47 μ F	Not required	Not required	51505C	60 μ H	60 μ H
NCM6S4815C	1 μ F	1 μ F	47 μ F	Not required	Not required	51505C	60 μ H	60 μ H
NCM6D4805C	1 μ F	1 μ F	47 μ F	Not required	Not required	51505C	60 μ H	60 μ H
NCM6D4812C	1 μ F	1 μ F	47 μ F	Not required	Not required	51505C	60 μ H	60 μ H
NCM6D4815C	1 μ F	1 μ F	47 μ F	Not required	Not required	51505C	60 μ H	60 μ H

EMC FILTERING AND SPECTRA

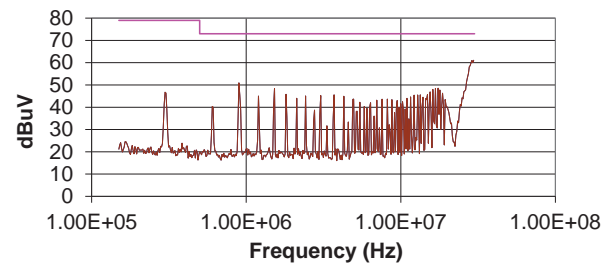
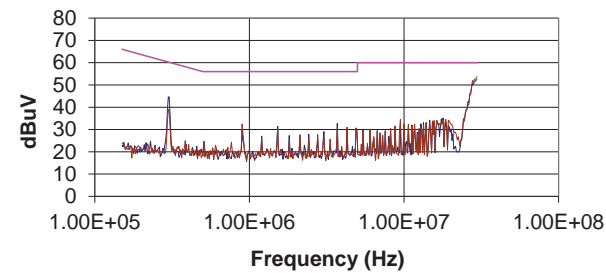
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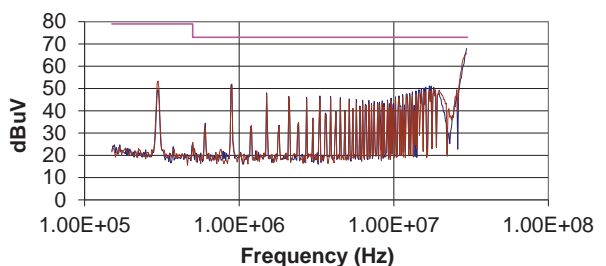
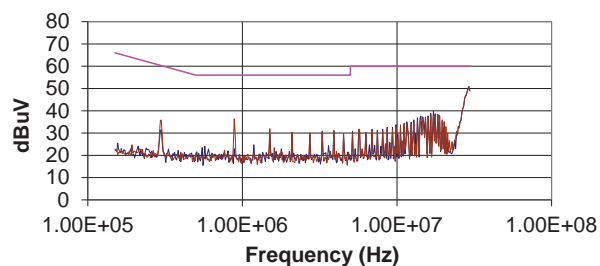
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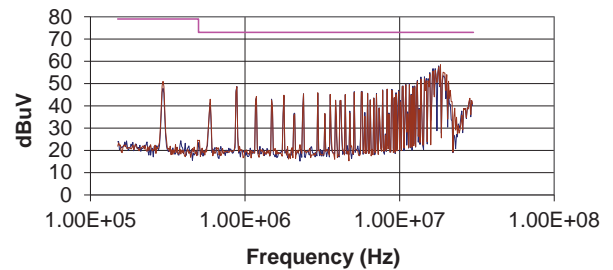
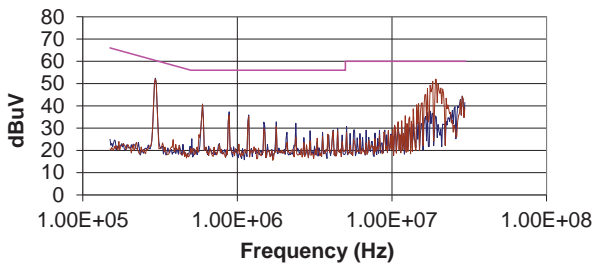


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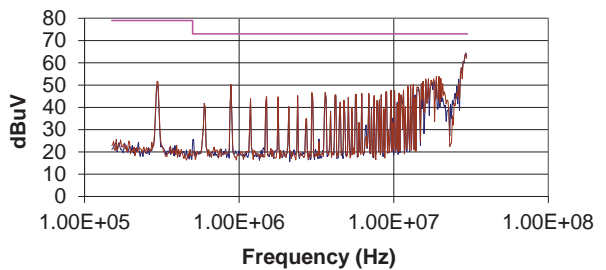
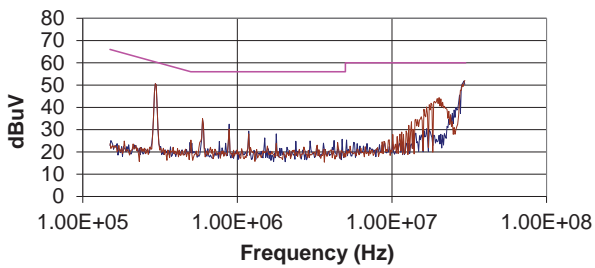


EMC FILTERING AND SPECTRA

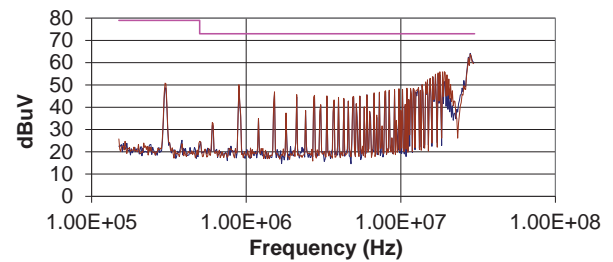
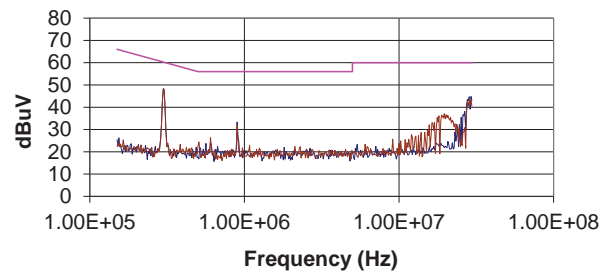
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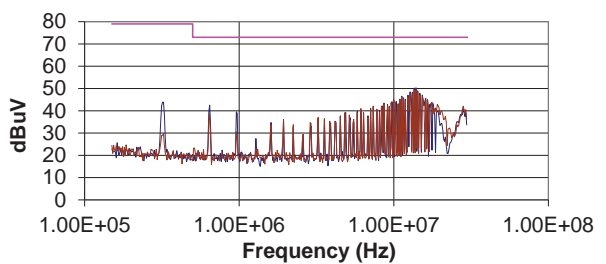
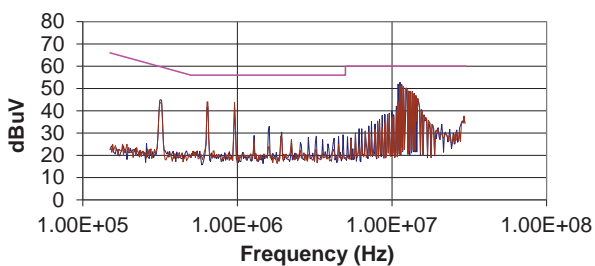
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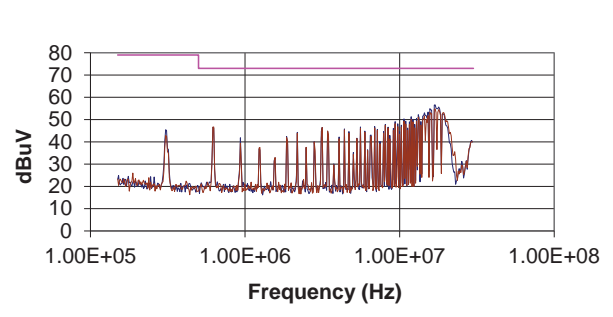
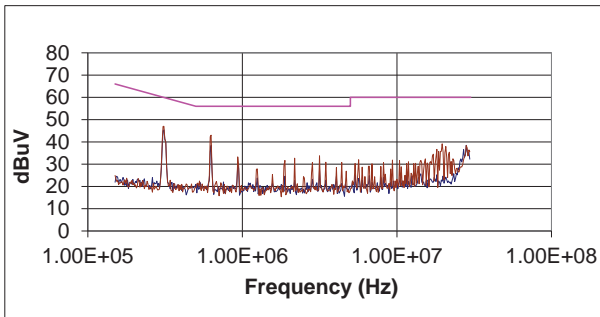


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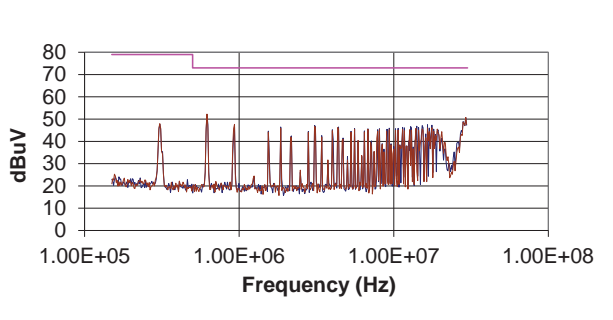
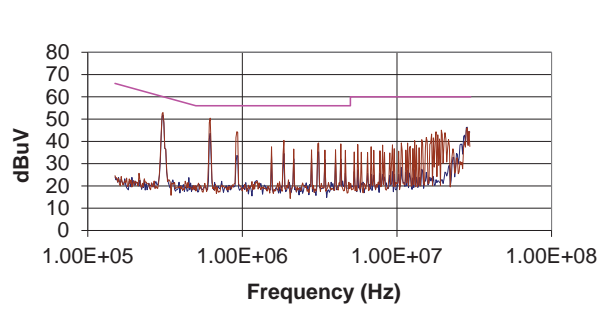


EMC FILTERING AND SPECTRA

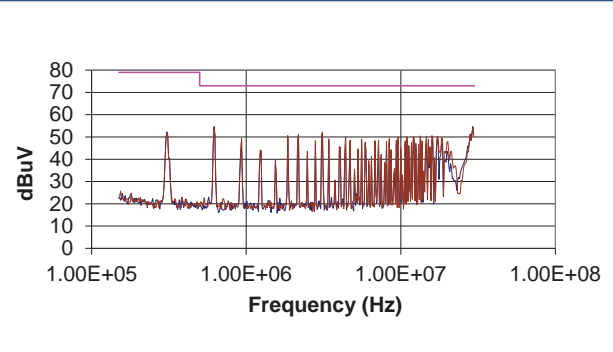
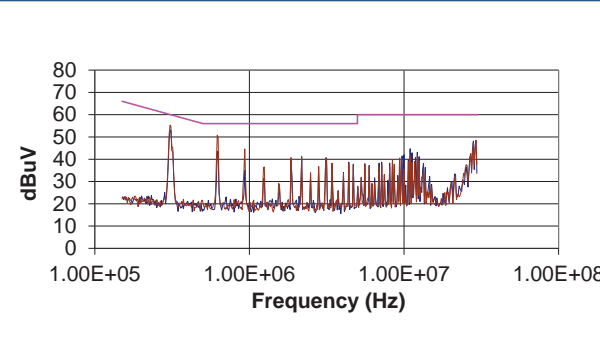
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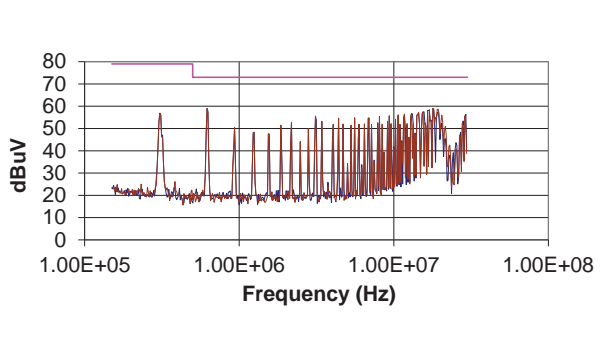
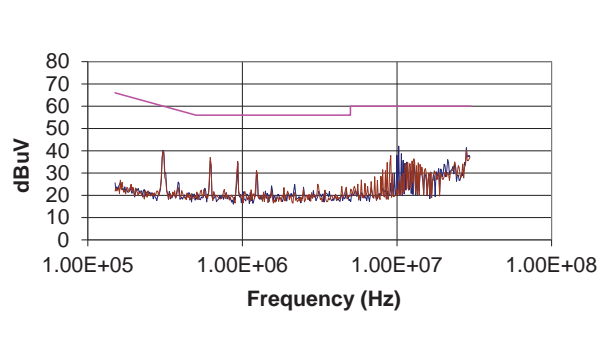
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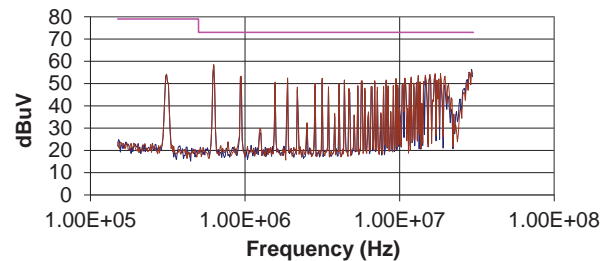
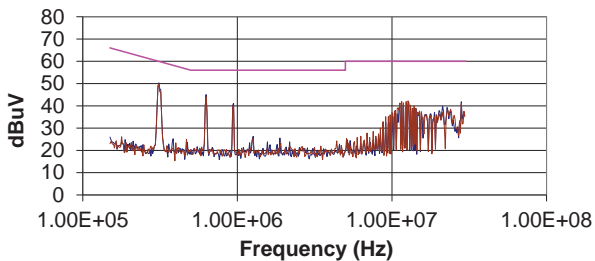


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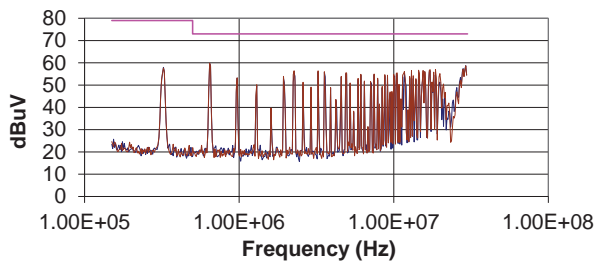
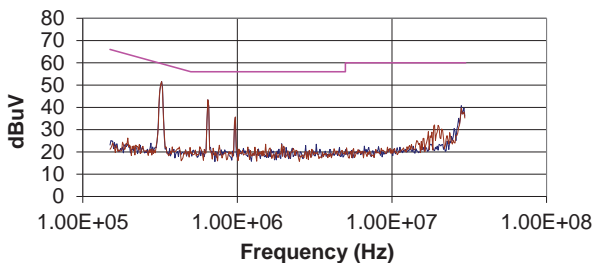


EMC FILTERING AND SPECTRA

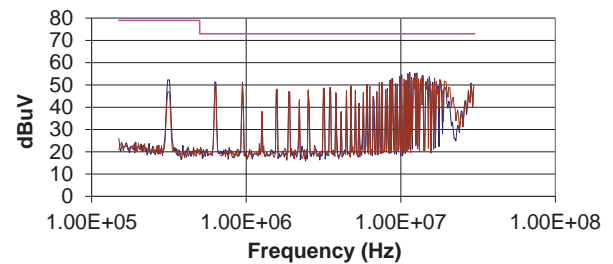
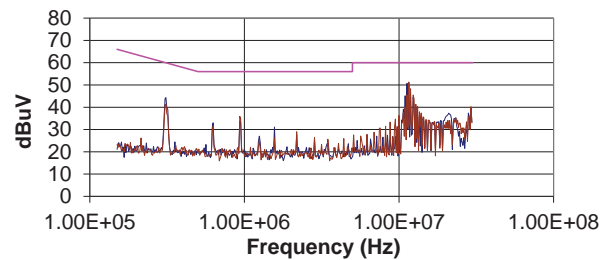
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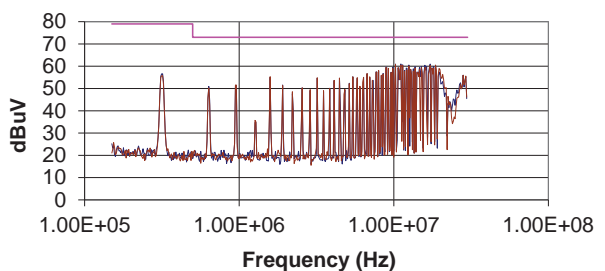
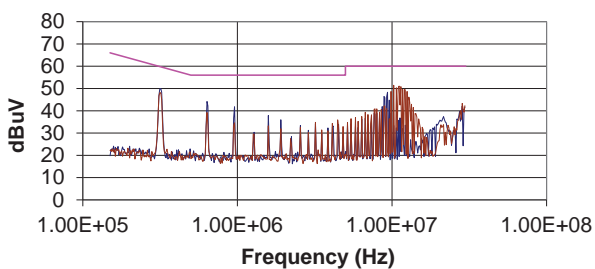
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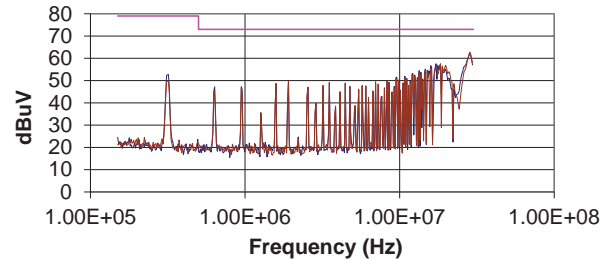
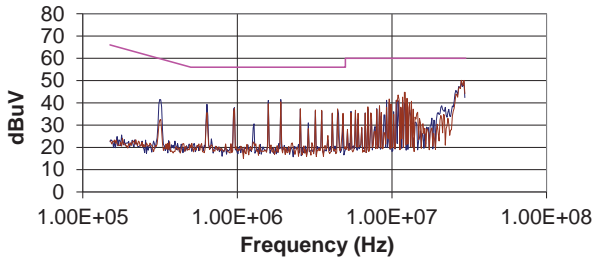


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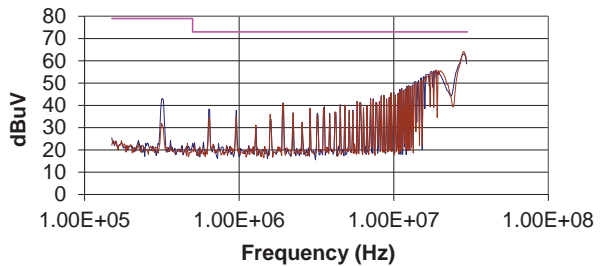
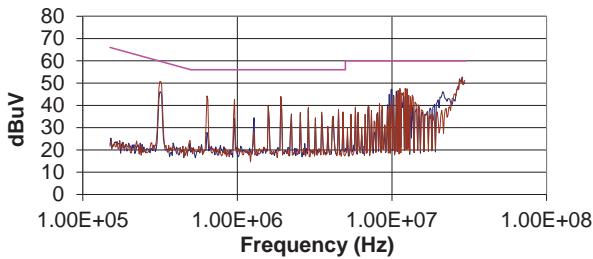


EMC FILTERING AND SPECTRA

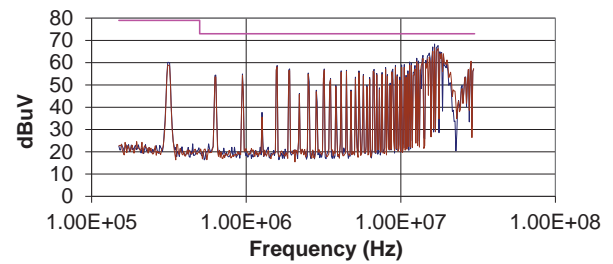
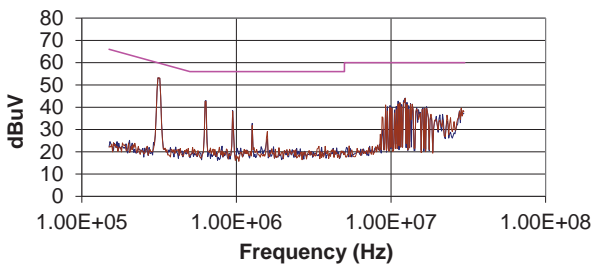
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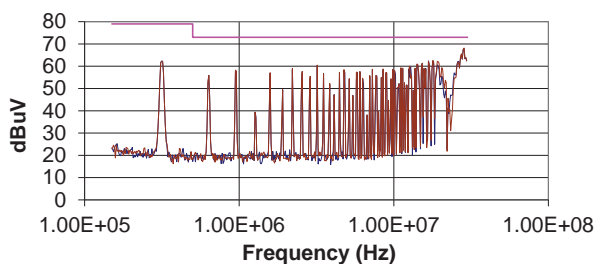
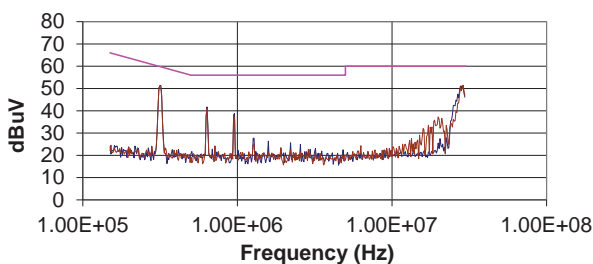
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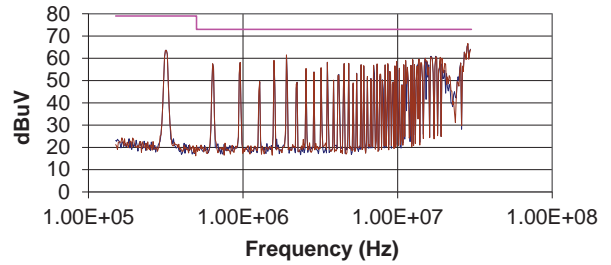
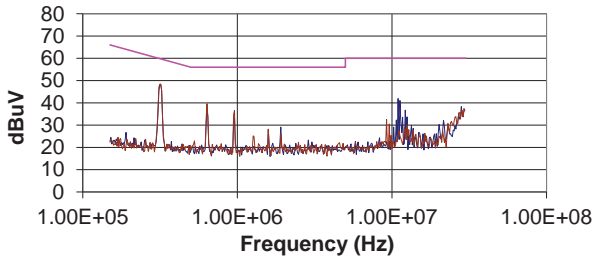


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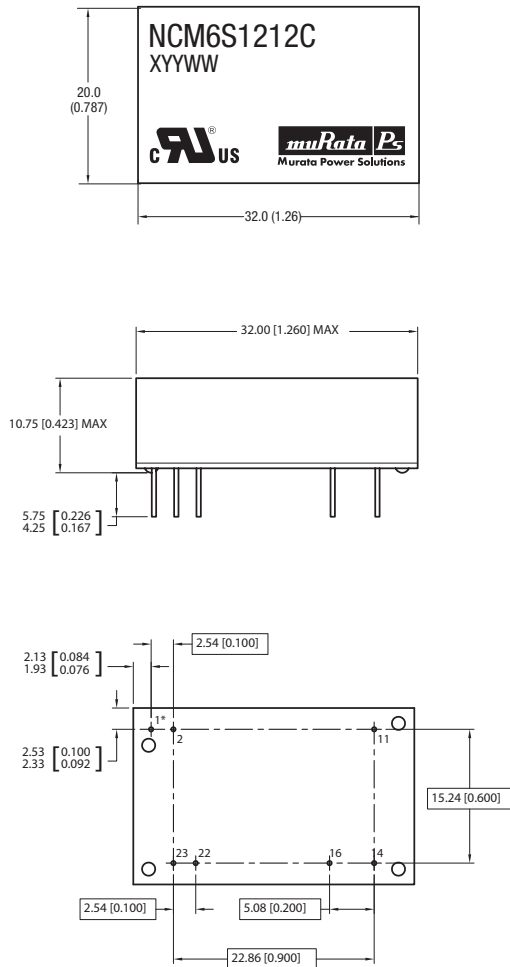
EMC FILTERING AND SPECTRA

NCM6D4815C



PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS



* Optional control pin.
 All dimensions in millimetres (inches) ± 0.5 (0.020) except pin to pin tolerance ± 0.25 (0.010).
 All pins on a 2.54 (0.100) pitch and within 0.25 (0.010) of true position.

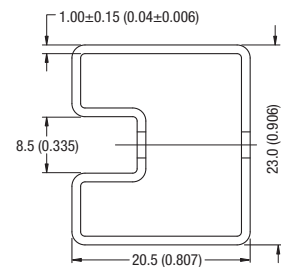
Case material: plastic.

Weight: 10.61g

PIN CONNECTIONS

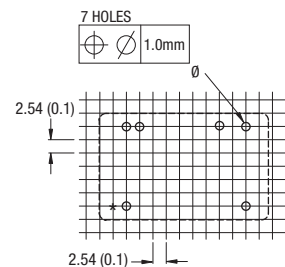
Pin	Function	
	Single	Dual
1*	ON/OFF	ON/OFF
2	-VIN	-VIN
11	N/C	-VOUT
14	+VOUT	+VOUT
16	-VOUT	OV
22	+VIN	+VIN
23	+VIN	+VIN

TUBE OUTLINE DIMENSIONS



Tube length 20.47 (520)
 All dimensions in inches ± 0.010 (mm 0.25mm). Quantity: 15

RECOMMENDED FOOTPRINT DETAILS



All dimensions in millimetres ± 0.25 (± 0.010 inches).

Murata Power Solutions, Inc.
 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.
 ISO 9001 and 14001 REGISTERED



This product is subject to the following **operating requirements** and the **Life and Safety Critical Application Sales Policy**:
 Refer to: <http://www.murata-ps.com/requirements/>

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.
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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

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