

共模濾波器和差模濾波器 Common Mode & Differential Mode Filters

用途 Applications

Switching Mode Power Supplies normally generate excessive high frequency noise. These unwanted electrical signals can pass from the power supply through the input power connections into the power line, other electronic equipments connected to these same power lines may pick up these noise, which can cause program error and even total breakdown of connected equipment.. An EMI Noise Filter inserted between the power line and the SMPS can eliminate this type of interference.

在開關電源通常會產生高頻噪音，這些電源信號會由電源供應傳至接駁的電器或電子產品。輕則令到電子產品的程式沒法正常運作，重則令該電子產品損壞。而在交流電源和開關電源供應器之間加入 EMI 濾波器就可消除此類干擾。

Ordering Code

CMLF-XXXXX-V/H-XXX-XXXXXM/U

1. CMLF: Common Mode Line Filter
 2. CMLF-XXXXX: Shape and Size of the Cores
 3. CMLF-XXXXX-V/H: V for Vertical; H for Horizontal
 4. CMLF-XXXXX-V/H-XXX: Wire Size eg.: 1.5mm will show as 150
 5. CMLF-XXXXX-V/H-XXX-XXXXXM/U: Inductance Value M=milli-henry; U=micro-henry
- Example: DMF will means Differential Mode Filter and N in DMF is nano-henry

● 共模濾波器 Common Mode Line Filter (CMLF)

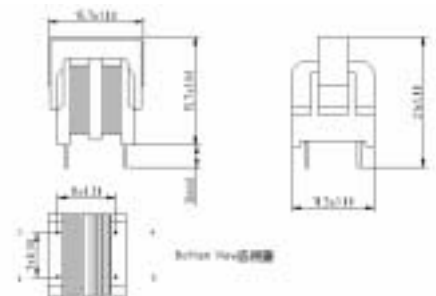


UU Cores

CMLF-UU9.8-V/H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
021	00010M	600	0.20	2000
025	00005M	600	0.33	
031	00003M	600	0.48	
035	01200U	600	0.60	
040	01000U	600	0.80	

Dimensions: Fig 1

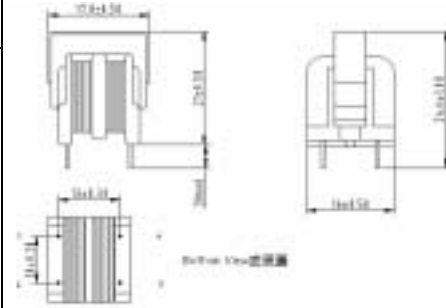


Parts with other specifications may available, please contact our sales engineer for further information.
如需要其它參數之此類器件，請與敝司的銷售工程師聯絡索取詳細資料。 E-mail: jrl@pe-coils.com

CMLF-UU10.5-V-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
021	00014M	600	0.20	2000
031	00008M	600	0.48	
035	00005M	600	0.60	
040	00004M	600	0.80	
045	00003M	600	1.00	
050	00002M	600	1.30	

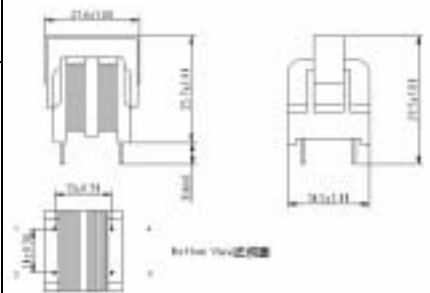
Dimensions: Fig. 2



CMLF-UU16-V-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
025	00028M	600	0.33	2000
031	00020M	600	0.48	
035	00007M	600	0.60	
040	00005M	600	0.80	
050	02800U	600	1.30	

Dimensions: Fig. 3

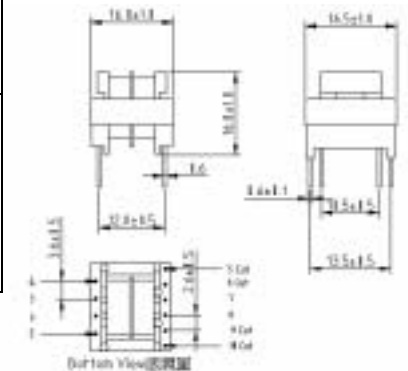


EE Cores

CMLF-EE16-H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
011	00074M	600	0.06	2000
017	00013M	600	0.16	
023	07300U	500	0.20	
027	00003M	600	0.30	

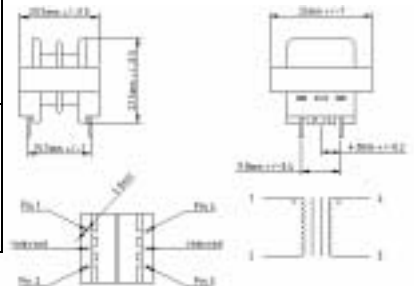
Dimensions: Fig. 4



CMLF-EE25-V-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
050	00010M	600	1.30	2000
060	05600U	600	2.00	
070	03500U	600	2.60	

Dimensions: Fig. 5



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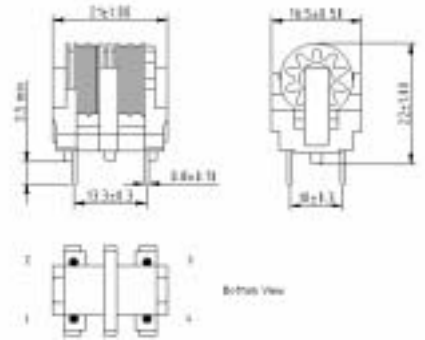
ET Cores



CMLF-ET20-V-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
021	00033M	600	0.20	2000
025	00018M	600	0.33	
031	00010M	600	0.48	
035	00008M	600	0.60	
040	00004M	600	0.80	
045	01200U	600	1.00	
050	00800U	600	1.30	

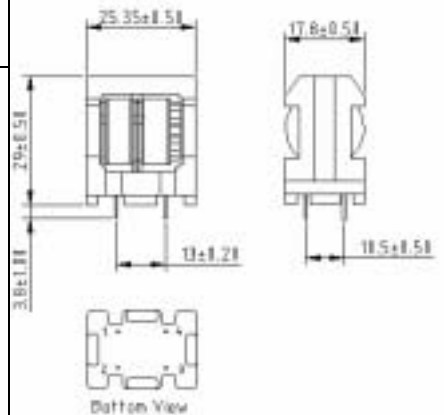
Dimensions: Fig. 6



CMLF-ET24-V/H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
025	00070M	600	0.33	2000
031	00050M	600	0.48	
035	00034M	600	0.60	
040	00020M	600	0.80	
045	00012M	600	1.00	
050	00008M	600	1.30	
055	05500U	600	1.60	
060	03700U	600	2.00	

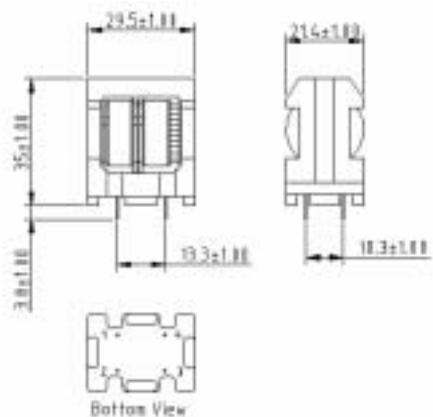
Dimensions: Fig. 7



CMLF-ET28-V/H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
040	00090M	600	0.80	2000
045	00055M	600	1.00	
050	00033M	600	1.30	
055	00021M	600	1.60	
060	00019M	600	2.00	
065	00015M	600	2.30	
070	00010M	600	2.60	
080	00007M	700	3.50	

Dimensions: Fig. 8



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Toridal Cores



CMLF-T12.7X7.4X5-V/H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
025	03300U	600	0.30	2000
035	00002M	500	0.50	
055	00001M	500	1.30	
070	00500U	500	2.00	

Dimensions:
Max. Outer diameter
最大外徑: 15mm
Max. Thickness
最高厚度: 7.5mm

CMLF-T16X12X8-V/H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
031	00015M	600	0.48	2000
040	00011M	600	0.80	
050	04800M	600	1.30	
060	02800M	600	2.00	
070	01800M	600	2.60	

Dimensions:
Max. Outer diameter
最大外徑: 20mm
Max. Thickness
最高厚度: 14mm

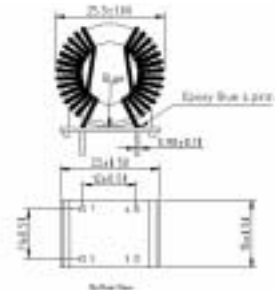
CASED 外殼

CMLF-T25X15X12-V/H-XXX-XXXXXM/U

線徑 Wire Diameter	電感 Inductance Minimum 1kHz 0.3V	電流密度 I Density (A/CM2)	額定電流 Rated Current (A)	耐壓強度 Withstand Voltage (V/min)
060	00040M	600	2.00	2000
070	00032M	600	2.60	
080	00025M	600	3.50	
090	00016M	700	4.40	
100	00006M	700	5.20	

Dimensions:
Max. Outer diameter
最大外徑: 30mm
Max. Thickness
最高厚度: 17mm

*For Ref. Only



注意 NOTE:

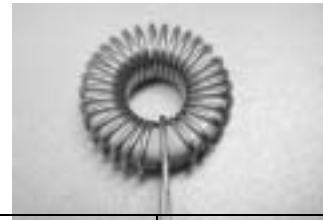
共模濾波器可根据客戶對耐壓要求製作，另可選配外殼或底座。

The withstand voltage of Common Mode Filter may do according to your special request.

Parts with other specifications may available, please contact our sales engineer for further information.

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● 差模濾波器 *Differential Mode Filter (DMF)*



Toroidal Coils 環形

Material 材質	Mix No	Permeability	Color Code	Type of Coating	Temp. Coef.
Iron Powder	26	75	Yellow/White	Epoxy	822PPM/C
Iron Powder	52	75	Green/Blue	Epoxy	655 PPM/C

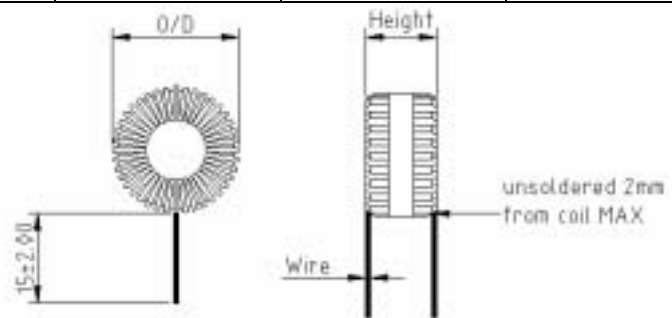
DMF-XXXXX-V/H-XXX-XXXXXU/N

Shape & Size 形狀和尺寸	Outer Diameter 外徑 (mm)	Inner Diameter 內徑 (mm)	Height 高度 (mm)	AL 電感系數 nH/T	MLT 平均匝長 (cm)
T030-26K	7.80	3.84	3.25	33.5	1.144
T037-26K	9.53	5.21	3.25	28.5	1.282
T044-26K	11.20	5.82	4.04	37.0	1.54
T050-26K	12.70	7.70	4.83	33.0	1.788
T050-26B	12.70	7.70	6.35	43.5	2.032
T060-26K	15.20	8.53	5.94	50.0	2.17
T068-26K	17.50	9.40	4.93	43.5	2.174
T068-26A	17.50	9.40	6.35	58.0	2.418
T068-26D	17.50	9.40	9.53	87.0	2.926
T080-26K	20.20	12.60	6.35	46.0	2.631
T080-26B	20.20	12.60	9.53	71.0	3.1394
T090-26K	22.90	14.00	9.53	70.0	3.3528
T094-26K	23.90	14.20	7.42	60.0	2.979
T106-26K	26.90	14.50	11.10	93.0	3.929
T130-26K	33.00	19.80	11.10	81.0	4.4176
T131-26K	33.00	16.30	11.10	116.0	4.4176
T150-26K	38.40	21.50	11.10	96.0	4.844
T157-26K	39.90	24.10	14.50	100.0	5.507
T184-26K	46.70	24.10	18.00	169.0	6.624
T200-26K	50.80	31.80	14.00	92.0	6.299
T225-26K	57.20	35.60	14.00	98.0	6.816

$L=AL * N^2$

L= INDUCTANCE (nano Henry) 電感量

N= TURNS 圈數



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● Drum & Rod Cores 鼓型和圓棒型

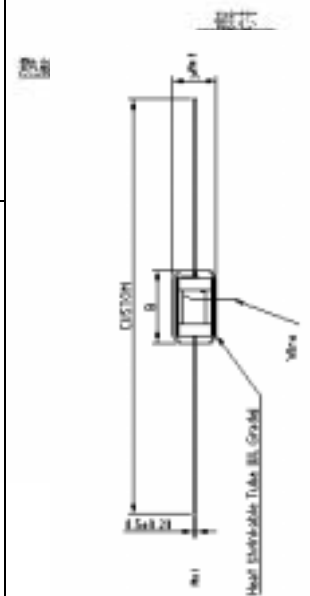
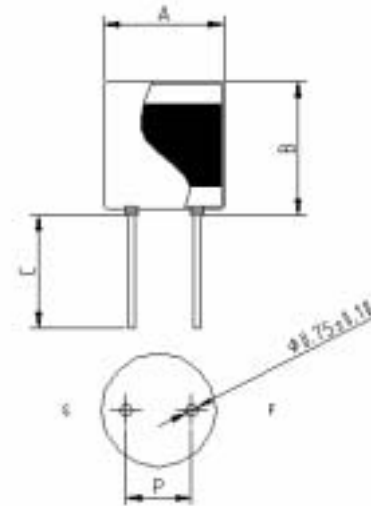
Material: Ferrite NiZn

材料：軟磁鎳鋅



DFM-DRXXX-V/H-XXX-XXXXXU/N

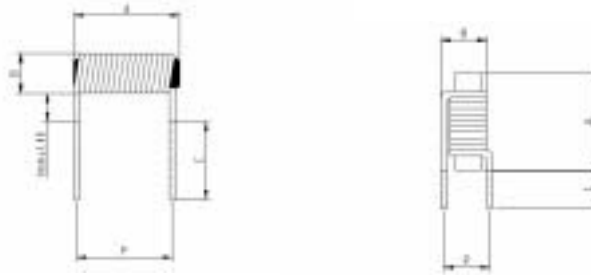
Shape & Size 尺寸	Enamelled Wire 線徑	Inductance 電感量±20%	Rated Current (A)	Dimensions (mm)			
				A(max)	B(max)	C	P(±0.5)
DR6X8	040	06800N	2.40	7.5	9.0	10.0	3.0
	040	10000N	2.10				
	032	22000N	1.30				
	028	47000N	0.95				
	028	68000N	0.87				
DR8X10	080	01000N	7.40	10.0	13.0	10.0	5.0
	080	02700N	6.60				
	070	04700N	5.80				
	060	06800N	4.50				
	050	10000N	2.90				
	045	22000N	2.00				
	045	47000N	1.60				
	035	68000N	1.20				
DR10X12	120	01000N	9.60	12.5	15.0	10.0	6.8
	120	02700N	8.70				
	120	04700N	8.00				
	100	06800N	6.60				
	080	10000N	4.60				
	060	22000N	3.00				
	060	47000N	2.30				
	060	68000N	2.20				
DR14X15	100	00010U	6.90	16.5	20.5	10.0	8.2
	090	00022U	4.90				
	090	00047U	3.70				
	080	00068U	3.20				
	070	00100U	2.40				
	060	00220U	1.80				
	045	00470U	1.10				
	045	00680U	1.00				
	040	01000U	0.76				



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DMF-RXXX-V/H-XXX-XXXXXU/N

V=Vertical (Right)
 H=Horizontal (Left)



Shape & Size 尺寸	Enamelled Wire 線徑	Inductance 電感量±20%	Rated Current (A)	Dimensions (mm)			
				A(max)	B(max)	C	P(±0.5)
R6X15	100	00750N	6.90	16	10.5	10	10
	120	00750N	8.70				
	160	00750N	15.50				
	100	01000N	6.90				
	120	01000N	8.70				
	160	01000N	15.50				
	100	01500N	6.90				
	120	01500N	8.70				
R6X20	160	01500N	15.50	21	10.5	10	10
	100	02000N	6.90				
	120	02000N	8.70				
	160	02000N	15.5				
	100	03000N	6.90				
	120	03000N	8.70				
R6X30	160	03000N	15.50	31	10.5	10	10
	100	05000N	6.90				
	120	05000N	8.70				
	160	05000N	15.50				
	100	10000N	6.90				
	120	10000N	8.70				
**PLEASE NOTE ABOVE JUST SHOW ONE SIZE OF ROD CORES. 注意：以上只是顯示磁棒的其中一款							

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Some Standard Sizes of DR & R Cores 其它的標準尺寸

型號 Shape	尺寸 Ø X L	型號 Shape	尺寸 Ø X L	型號 Shape	尺寸 Ø X L
R	1.75X18.5	R	10X35	DR	10X5.2
R	2X14	DR	2.5X1.9	DR	10X10
R	2.5X20	DR	3X2.1	DR	10X12
R	3X36.5	DR	4X4	DR	12X15
R	3.5X25	DR	4X4.5	DR	14X15
R	4X30	DR	4X5.5	DR	15X18
R	5X12.5	DR	5.3X6.5	DR	18X18
R	5X30	DR	6X7	DR	18X20
R	6X38	DR	8X8	** above only listed a small part of available sizes. 以上只是現有尺寸的一小部分。	
R	6.2X37.5	DR	9X4.1		
R	8X30	DR	9X12		

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