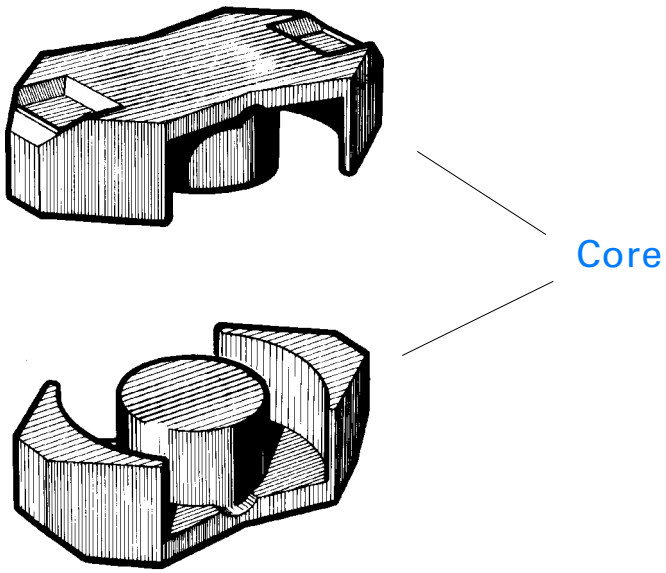
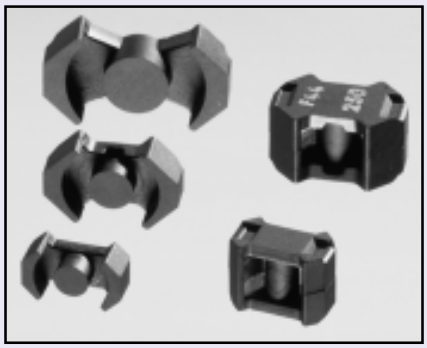
RM Core (Low Profile) Components

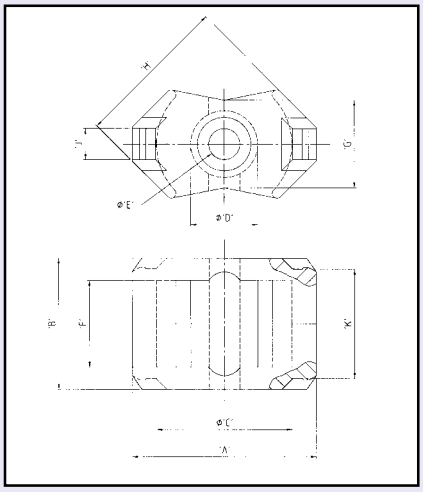


Low Profile RM Cores

With the increasing miniaturisation of electronic circuits and Switched Mode power supplies being integrated into PCB philosophy, low profile components are necessary to overcome height restrictions. In some cases the conventional Windings can be replaced by printed circuit tracks directly onto the PCB.
The RM core's low profile shape and ease of construction give significant advantages including, fast error free winding and efficient repeatable performance.

RM 6 LOW PROFILE
29-220-





Core Dimensions (mm)

A	17.30 - 17.90	F	4.50 - 4.90
B	8.80 - 9.00	G	7.80 - 8.20
C	12.40 - 12.90	H	14.10 - 14.70
D	6.10 - 6.40	J	2.80 - 2.90
E	2.80 - 3.00	K	6.60 - 7.08

Core Parameters

In accordance with IEC Document 60205.

Parameter	$\Sigma l/A$	Effective Length	Effective Area	Minimum Area	Effective Volume
Symbol	C_1	l_e	A_e	A_{min}	V_e
Value	$0.58mm^{-1}$	21.8mm	$37.5mm^2$	$31.2mm^3$	$820.0mm^3$

Electrical Specification

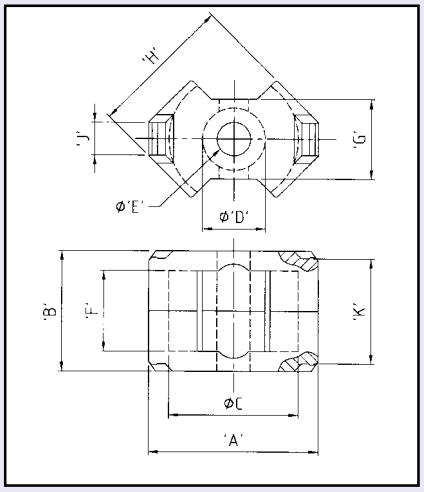
Material	A_L Value	Tolerance	Gap Length	Eff. Permeability	Part Number
F47	2400	+30/-20%	-	1110	29-220-47
F44	2500	+30/-20%	-	1155	29-220-44
F45	2600	+30/-20%	-	1200	29-220-45
F10	6600	+30/-20%	-	3050	29-220-37
F39	10500	+40/-30%	-	4850	29-220-39
F9C	5500	+30/-20%	-	2540	29-220C36

Part numbers refers to half cores
Gapped core pairs may be available on request.

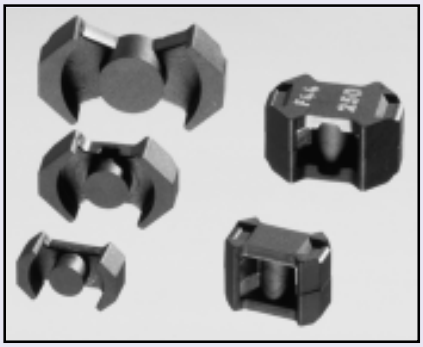
MMG Canada Limited

Core Dimensions (mm)

A	22.30 - 23.20	F	5.90 - 6.30
B	11.40 - 11.60	G	10.50 - 11.00
C	17.00 - 17.70	H	18.90 - 19.70
D	8.25 - 8.55	J	4.30 - 5.10
E	——	K	9.16 - 9.64



RM 8 LOW PROFILE 29-240-



Core Parameters

In accordance with IEC Document 60205.

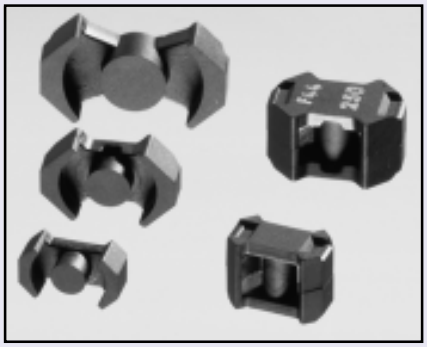
Parameter	$\Sigma l/A$	Effective Length	Effective Area	Minimum Area	Effective Volume
Symbol	C_1	l_e	A_e	A_{min}	V_e
Value	0.44mm^{-1}	28.7mm	64.9mm^2	55.4mm^2	1860.0mm^3

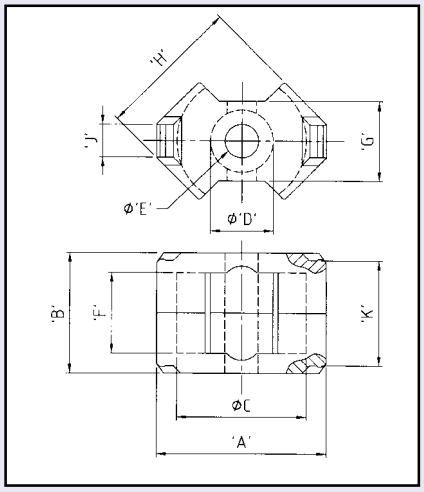
Electrical Specification

Material	A_L Value	Tolerance	Gap Length	Eff. Permeability	Part Number
F44	3600	+30/-20%	-	1260	29-240-44
F45	3750	+30/-20%	-	1310	29-240-45
F39	15000	+40/-30%	-	5250	29-240-39
F9C	7050	+30/-20%	-	2470	29-240C36

Part numbers refers to half cores
Gapped core pairs may be available on request.

RM 10 LOW PROFILE
29-250-





Core Dimensions (mm)

A	27.20 - 28.40	F	6.70 - 7.10
B	12.80 - 13.00	G	13.00 - 13.50
C	21.20 - 22.10	H	23.60 - 24.70
D	10.50 - 10.90	J	5.00 - 5.20
E	———	K	10.26 - 10.74

Core Parameters

In accordance with IEC Document 60205.

Parameter	$\Sigma l/A$	Effective Length	Effective Area	Minimum Area	Effective Volume
Symbol	C_1	l_e	A_e	A_{min}	V_e
Value	$0.34mm^{-1}$	33.9mm	$99.1mm^2$	$93.3mm^3$	$3360.0mm^3$

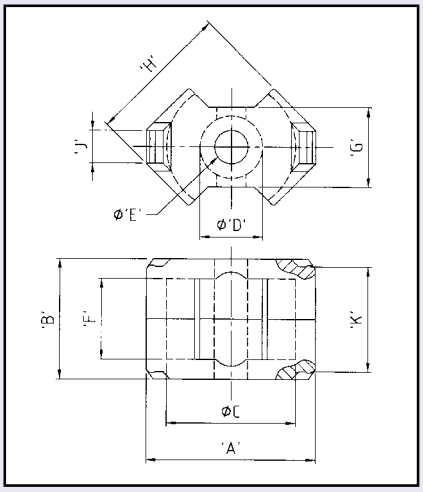
Electrical Specification

Material	A_L Value	Tolerance	Gap Length	Eff. Permeability	Part Number
F44	4700	+30/-20%	-	1270	29-250-44
F45	4900	+30/-20%	-	1325	29-250-45
F39	19500	+40/-30%	-	5275	29-250-39
F9C	10500	+30/-20%	-	2840	29-250C36

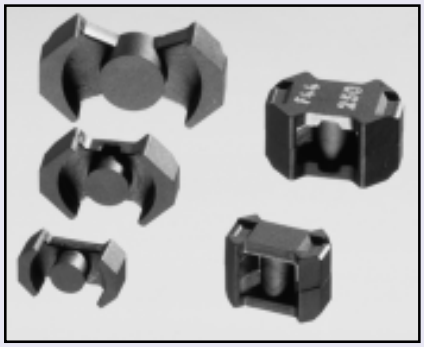
Part numbers refers to half cores.
Gapped cores may be available on request.

Core Dimensions (mm)

A	36.10 - 37.40	F	9.00 - 9.50
B	16.60 - 16.80	G	15.60 - 16.10
C	25.00 - 26.00	H	27.70 - 28.80
D	12.40 - 12.80	J	4.90 - 5.10
E	——	K	13.56 - 14.04



RM 12 LOW PROFILE 29-260-



Core Parameters

In accordance with IEC Document 60205.

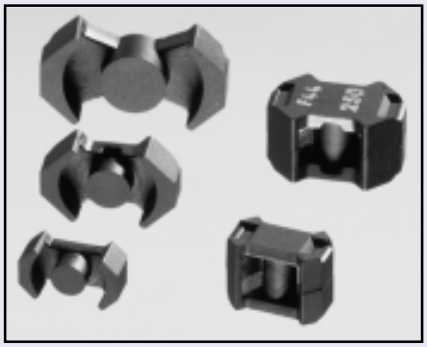
Parameter	$\Sigma l/A$	Effective Length	Effective Area	Minimum Area	Effective Volume
Symbol	C_1	l_e	A_e	A_{min}	V_e
Value	0.28mm^{-1}	42.0mm	147.5mm²	124.7mm²	6195.0mm³

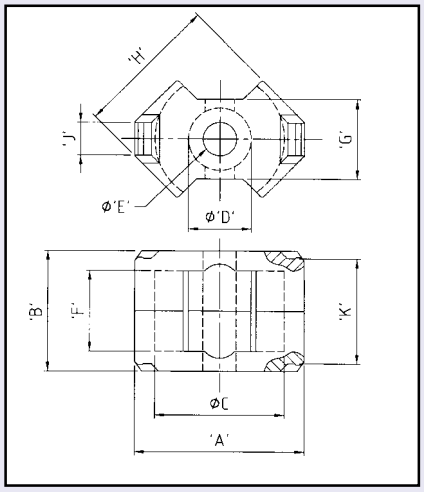
Electrical Specification

Material	A_L Value	Tolerance	Gap Length	Eff. Permeability	Part Number
F47	5600	+30/-20%	-	1250	29-260-47
F44	6000	+30/-20%	-	1335	29-260-44
F45	6300	+30/-20%	-	1400	29-260-45
F39	23800	+40/-30%	-	5305	29-260-39
F9C	12750	+30/-20%	-	2840	29-260C36

Part numbers refers to half cores
Gapped cores may be available on request.

RM 14 LOW PROFILE
29-270-





Core Dimensions (mm)

A	40.00 - 42.40	F	11.10 - 11.70
B	20.30 - 20.50	G	18.40 - 19.00
C	29.00 - 30.20	H	33.50 - 34.70
D	14.50 - 15.00	J	5.60 - 5.80
E	———	K	17.06 - 17.54

Core Parameters

In accordance with IEC Document 60205.

Parameter	$\Sigma l/A$	Effective Length	Effective Area	Minimum Area	Effective Volume
Symbol	C_1	l_e	A_e	A_{min}	V_e
Value	$0.25mm^{-1}$	50.9mm	$201.0mm^2$	$170.0mm^3$	$10230.0mm^3$

Electrical Specification

Material	A_L Value	Tolerance	Gap Length	Eff. Permeability	Part Number
F47	6280	+30/-20%	-	1250	29-270-47
F44	6710	+30/-20%	-	1335	29-270-44
F45	7040	+30/-20%	-	1400	29-270-45
F39	26640	+40/-30%	-	5300	29-270-39
F9C	14275	+30/-20%	-	2840	29-270C36

Part numbers refers to half cores.
Gapped cores may be available on request.