



**THE DATASHEET OF
FMC18A220000**



FM series

Snap-in rocker switches •
panel cut-out 19 x 13 (.750 x .508)



DISTINCTIVE FEATURES

For class II appliances

UL approved

Protection against moisture by double-shell case

Illuminated or non-illuminated

Optional sealing boot



ELECTRICAL AND GENERAL SPECIFICATIONS

- Approved ratings (functions 1 and 6) :
UL : 6 A 250 VAC & 125 VAC T 65°C
- Max. contact rating :
 - functions 1 and 6 : see above.
 - function 3 : 4 A 250 VAC
 - functions 8 and 9 : 6 A 250 VAC
- LED types available :
3.3 V (4 V max.) 10 mA LED (resistor to be series connected by the user)
5 V or 12 V LED with integrated resistor
- Initial contact resistance : 20 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength :
 - functions 1 and 6 : 2,500 Vrms between terminals
 - functions 3, 8 and 9 : 1,500 Vrms between terminals
- Electrical life at full load : 10,000 cycles
- Operating temperature : -20 °C to +85 °C (-4 °F to +185 °F)



MATERIALS

- Case, frame, rocker : PA6/6
- Contacts : silver
- Terminals : silver plated
- Lens : PC
- Lamp terminal : no plating
- Fluorescent lamp for blue or green lens, neon lamp for other colors

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

The company reserves the right to change specifications without notice.



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AGENCY APPROVALS

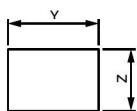


Availability : functions 1 and 6.

Marking : approved models are standard marked.



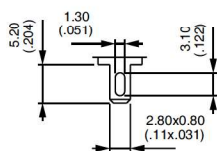
PANEL CUT-OUT



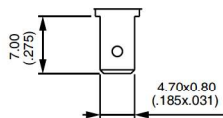
Panel thickness	Dim. Y	Dim. Z
0.75 to 1.25 mm	19.2 +0/-0.1	12.9 +0.15/-0
1.25 to 2 mm	19.4 +0/-0.1	12.9 +0.15/-0
2 to 3 mm	19.8 +0/-0.1	12.9 +0.15/-0



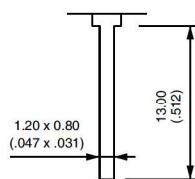
TERMINALS



2
Solder lug



8
Quick-connect

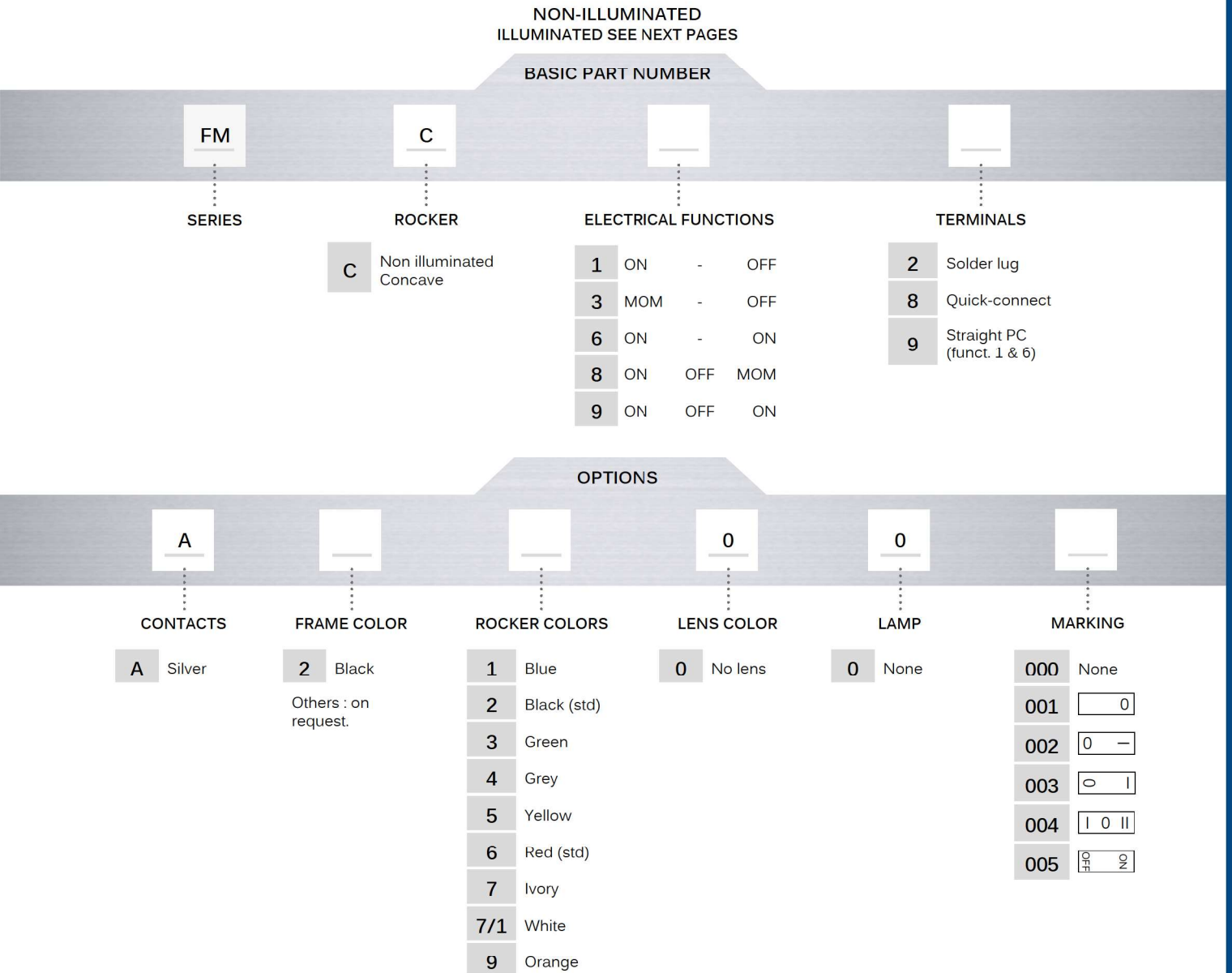


9
Straight PC
(functions 1 and 6 only)

FM series



Snap-in rocker switches •
panel cut-out 19 x 13 (.750 x .508) • non-illuminated

BUILD YOUR PART NUMBER



ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

-  **Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
-  A **sealing boot** is available to protect the switches against sand or splashing water. Part number U7720. See "Sealing boots" section of website.

FM series

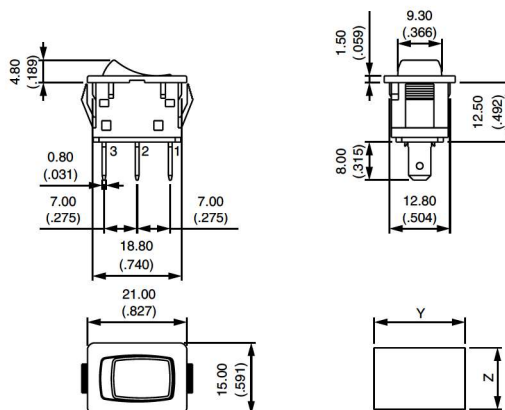
Snap-in rocker switches • panel cut-out 19 x 13 (.750 x .508) • non-illuminated

NON-ILLUMINATED QUICK-CONNECT TERMINALS

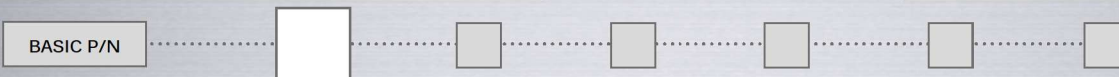


Single pole	1-2		2-3
FMC18	ON	-	OFF
FMC38	MOM	-	OFF
FMC68	ON	-	ON
FMC88	ON	OFF	MOM
FMC98	ON	OFF	ON

For solder lug terminals, replace 8 with 2 (FMC•2)
For straight PC terminals, replace 8 with 9 (FMC•9)

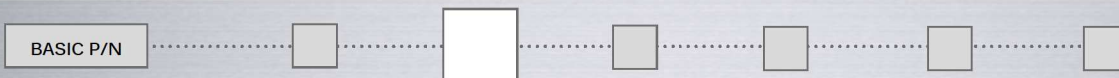


CONTACT MATERIALS



A Silver

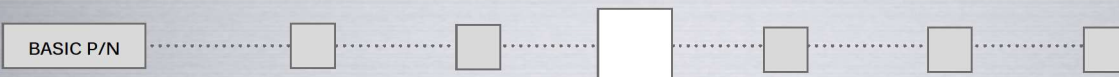
FRAME COLOR



2 Black

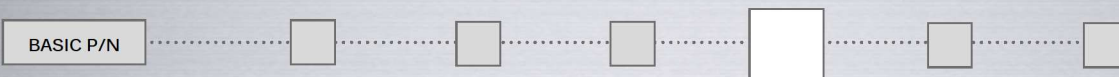
Others : on request

ROCKER COLORS



- 1 Blue
- 2 Black (std)
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red (std)
- 7 Ivory
- 7/1 White
- 9 Orange

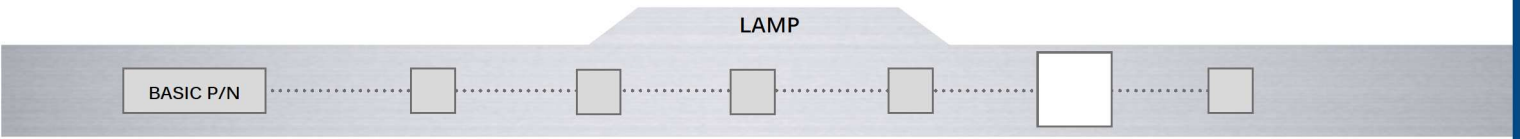
LENS COLOR



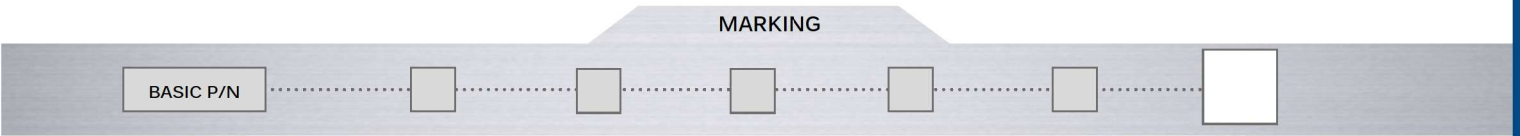
0 No lens

FM series

Snap-in rocker switches •
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0 None



Color of marking : white for black rockers - black for other colors - Other : on request.

000 None

001

0

002

0	-
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003

O	I
---	---

004

I	O	II
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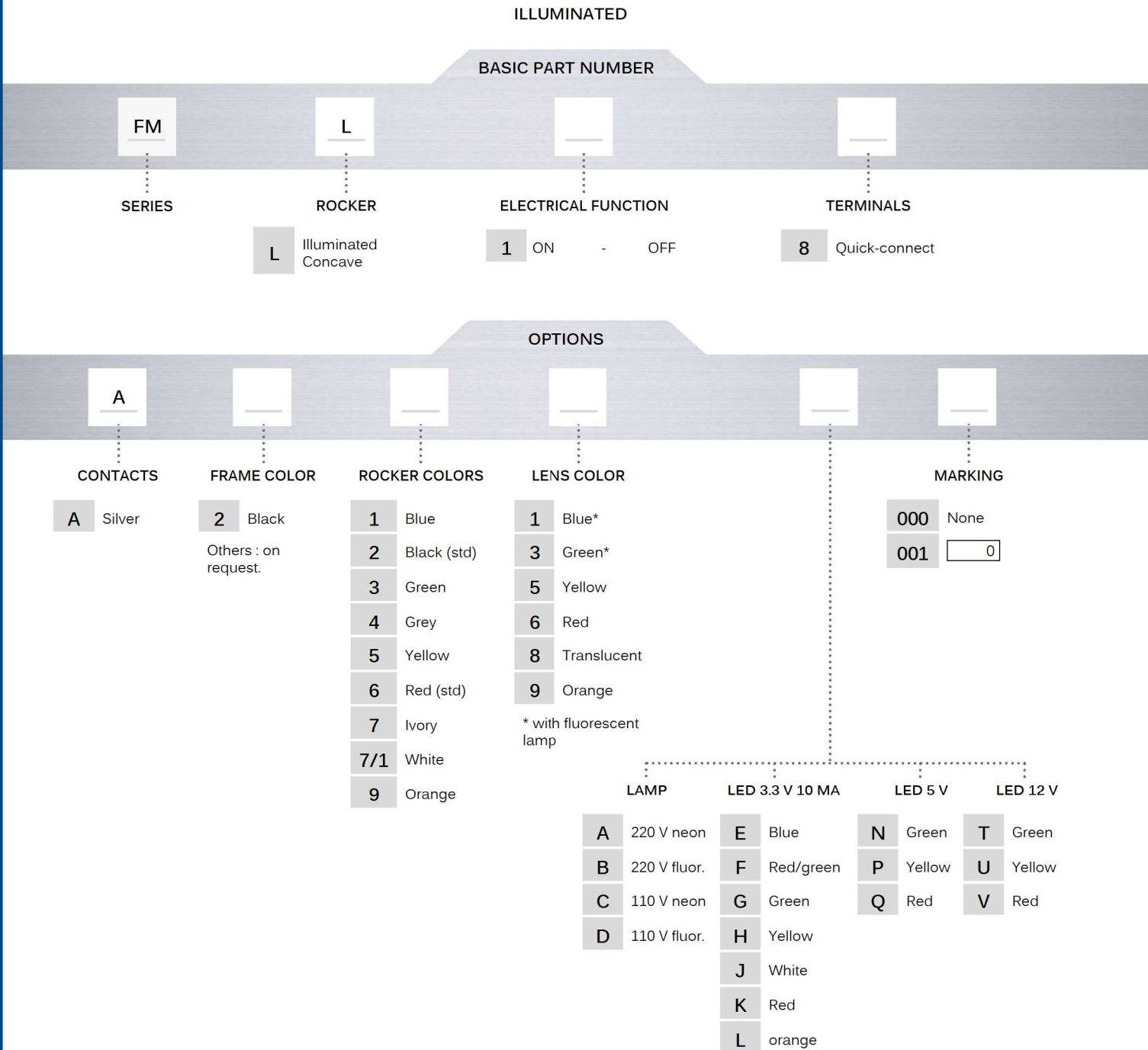
005

O	Z
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FM series

Snap-in rocker switches • panel cut-out 19 x 13 (.750 x .508) • illuminated

BUILD YOUR PART NUMBER



** Resistor value = $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

No resistor**

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On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- ⚠ **Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
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FM series

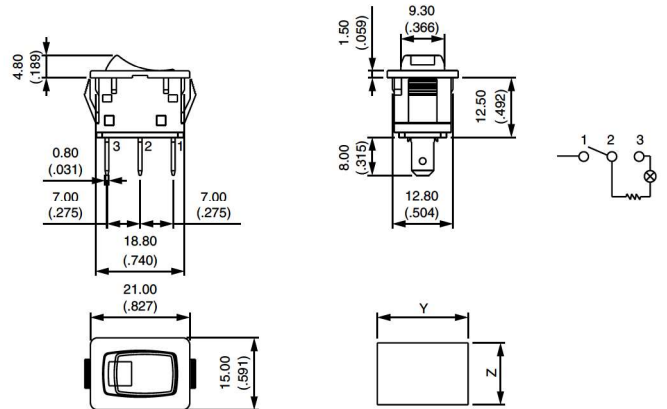
Snap-in rocker switches • panel cut-out 19 x 13 (.750 x .508) • illuminated

ILLUMINATED QUICK-CONNECT TERMINALS



Single pole
FML18 ON - OFF

For LED models, terminal 2 = cathode (-), terminal 3 = anode (+)



CONTACT MATERIALS



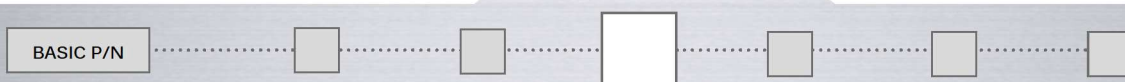
A Silver

FRAME COLOR



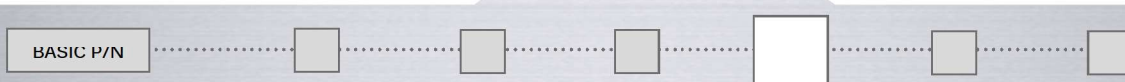
2 Black
Others : on request

ROCKER COLORS



- 1 Blue
- 2 Black (std)
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red (std)
- 7 Ivory
- 7/1 White
- 9 Orange

LENS COLORS

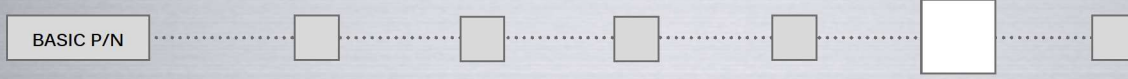


- 1 Blue *
 - 3 Green *
 - 5 Yellow
 - 6 Red
 - 8 Translucent
 - 9 Orange
- * with fluorescent lamp

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LAMPS / LEDS



LAMP	LED 3.3 V 10 mA	LED 5 V	LED 12 V
A 220 V neon	E Blue	N Green	T Green
B 220 V fluorescent	F Red/green	P Yellow	U Yellow
C 110 V neon	G Green	Q Red	V Red
D 110 V fluorescent	H Yellow		
	J White		
	K Red		
	L Orange		
	No resistor **		

** Resistor value = $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

MARKING



Color of marking : white for black rockers - black for other colors - Other : on request.

000	None
001	<input type="text" value="0"/>

Mouser Electronics

Authorized Distributor



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Apem:

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[FMC12A2500000](#) [FMC12A2600000](#) [FMC18A2200000](#) [FMC18A2200002](#) [FMC18A2200003](#) [FMC18A2200005](#)
[FMC18A2300000](#) [FMC18A2600002](#) [FMC18A2600003](#) [FMC18A2700001](#) [FMC19A2200000](#) [FMC19A2200005](#)
[FMC38A2200000](#) [FMC38A2200002](#) [FMC38A2200003](#) [FMC38A2600000](#) [FMC38A2600003](#) [FMC68A2200000](#)
[FMC68A2200003](#) [FMC68A2200006](#) [FMC68A2600000](#) [FMC69A2900000](#) [FMC78A2200006](#) [FMC82A2200000](#)
[FMC88A2200000](#) [FMC88A2200006](#) [FMC92A2200004](#) [FMC98A2200000](#) [FMC98A2200004](#) [FMC98A2200006](#)
[FMC98A2600004](#) [FML18A221D000](#) [FML18A223B000](#) [FML18A225A000](#) [FML18A226A000](#) [FML18A226V000](#)
[FML18A228A000](#) [FML18A228B000](#) [FML18A236A000](#) [FML18A266A000](#) [FML18A226Q000](#)

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