



MIC4420YMM Information



For Reference Only

Part Number MIC4420YMM

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

DescriptionIC DRIVER MOSFET 6A LS 8-MSOP**Package**8-TSSOP, 8-MSOP (0.118", 3.00mm Width)

For the pricing/inventory/lead time, please contact

us

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MIC4420YMM Specifications

Manufacturer Part Number Manufacturer Microchip Technology Integrated Circuits (ICs) PMIC - Gate Drivers Package 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns		
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Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 6A, 6A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns		PMIC - Gate Drivers
Driven Configuration Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Low-Side A. W-Side Non-Inverting Low-Side A. Single No-Channel, P-Channel MOSFET 4.5 V ~ 18 V A.5 V	Package	8-TSSOP, 8-MSOP (0.118", 3.00mm Width)
Channel Type Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Single N-Channel, P-Channel MOSFET 4.5 V ~ 18 V 0.8V, 2.4V 1.8V 1	Series	-
Number of Drivers Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Driven Configuration	Low-Side
Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)12ns, 13ns	Channel Type	Single
Voltage - Supply Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 4.5 V ~ 18 V 0.8V, 2.4V 6A, 6A Non-Inverting	Number of Drivers	1
Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 0.8V, 2.4V 6A, 6A Non-Inverting - 12ns, 13ns	Gate Type	N-Channel, P-Channel MOSFET
Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Voltage - Supply	4.5 V ~ 18 V
Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) - 12ns, 13ns	Current - Peak Output (Source, Sink)	6A, 6A
Rise / Fall Time (Typ) 12ns, 13ns	Input Type	Non-Inverting
	High Side Voltage - Max (Bootstrap)	-
4000 47000 (77)	Rise / Fall Time (Typ)	12ns, 13ns
Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (17)	Operating Temperature	-40°C ~ 150°C (TJ)
Mounting Type Surface Mount	Mounting Type	Surface Mount
Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width)	Package / Case	8-TSSOP, 8-MSOP (0.118", 3.00mm Width)
Supplier Device Package 8-MSOP	Supplier Device Package	8-MSOP
Report errors?		Report errors?

MIC4420YMM Guarantees



Quality Guarantees

We provide 90 days warranty. *

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



Service Guarantees

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

MIC4420YMM Payment Methods



















MIC4420YMM Shipping Methods













If you have any question about MIC4420YMM, please do not hesitate to contact us!

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