



MIC4120YML-TR Information



For Reference Only

Part Number MIC4120YML-TR

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC MOSFET DRIVER 6A NONINV 8-MLF

Package 8-VFDFN Exposed Pad, 8-MLF?

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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MIC4120YML-TR Specifications

Manufacturer Part NumberMIC4120YML-TRManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Package8-VFDFN Exposed Pad, 8-MLF?Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 20 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)12ns, 13nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VFDFN Exposed Pad, 8-MLF?		
CategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-VFDFN Exposed Pad, 8-MLF?Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 20 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)12ns, 13nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface Mount	Manufacturer Part Number	MIC4120YML-TR
PMIC - Gate Drivers Package 8-VFDFN Exposed Pad, 8-MLF? Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 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 Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Manufacturer	Microchip Technology
Package 8-VFDFN Exposed Pad, 8-MLF? Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 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 Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Category	Integrated Circuits (ICs)
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Driven Configuration Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 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 Operating Temperature Mounting Type Surface Mount	Package	8-VFDFN Exposed Pad, 8-MLF?
Channel Type Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET 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) Operating Temperature Mounting Type Single N-Channel MOSFET 4.5 V ~ 20 V 0.8V, 2.4V Current - Peak Output (Source, Sink) 6A, 6A Non-Inverting 12ns, 13ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Series	-
Number of Drivers Gate Type N-Channel, P-Channel MOSFET 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) Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Driven Configuration	Low-Side
Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply $4.5 \text{ V} \sim 20 \text{ V}$ Logic Voltage - VIL, VIH $0.8\text{V}, 2.4\text{V}$ Current - Peak Output (Source, Sink) $6A, 6A$ Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ) $12\text{ns}, 13\text{ns}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)Mounting TypeSurface Mount	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) 12ns, 13ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Number of Drivers	1
Logic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)12ns, 13nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface Mount	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) Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Voltage - Supply	4.5 V ~ 20 V
Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	Current - Peak Output (Source, Sink)	6A, 6A
Rise / Fall Time (Typ) $12ns, 13ns$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)Mounting TypeSurface Mount	Input Type	Non-Inverting
Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount	High Side Voltage - Max (Bootstrap)	-
Mounting Type Surface Mount	Rise / Fall Time (Typ)	12ns, 13ns
2.71	Operating Temperature	-40°C ~ 125°C (TJ)
Package / Case 8-VFDFN Exposed Pad, 8-MLF?	Mounting Type	Surface Mount
	Package / Case	8-VFDFN Exposed Pad, 8-MLF?
Supplier Device Package 8-MLF? (2x2)	Supplier Device Package	8-MLF? (2x2)
Report errors?		Report errors?

MIC4120YML-TR 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.

MIC4120YML-TR Payment Methods





















MIC4120YML-TR Shipping Methods













If you have any question about MIC4120YML-TR, please do not hesitate to contact us!

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