



#### MIC5528-2.8YMX-TR Information



For Reference Only

Part Number MIC5528-2.8YMX-TR
Manufacturer Microchip Technology
Category Integrated Circuits (ICs)

PMIC - Voltage Regulators - Linear

**Description** IC REG LINEAR 2.8V 500MA 6XTDFN

Package 6-XFDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



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## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









# MIC5528-2.8YMX-TR Specifications

Integrated Circuits (ICs)			
Category         Integrated Circuits (ICs)           PMIC - Voltage Regulators - Linear           Package         6-XFDFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Fixed           Number of Regulators         1           Voltage - Input (Max)         5.5V           Voltage - Output (Min/Fixed)         2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         0.5V @ 500mA           Current - Output         500mA           Current - Quiescent (Iq)         -           Current - Supply (Max)         55μA ~ 65μA           PSRR         70dB ~ 60dB (100Hz ~ 1kHz)           Control Features         Enable           Protection Features         Over Current, Over Temperature           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         6-XFDFN Exposed Pad           Supplier Device Package         6-XTDFN (1.2x1.2)	Manufacturer Part Number	MIC5528-2.8YMX-TR	
PMIC - Voltage Regulators - Linear           Package         6-XFDFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Fixed           Number of Regulators         1           Voltage - Input (Max)         5.5V           Voltage - Output (Min/Fixed)         2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         0.5V @ 500mA           Current - Output         500mA           Current - Quiescent (Iq)         -           Current - Supply (Max)         55μA ~ 65μA           PSRR         70dB ~ 60dB (100Hz ~ 1kHz)           Control Features         Enable           Protection Features         Over Current, Over Temperature           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         6-XFDFN Exposed Pad           Supplier Device Package         6-XTDFN (1.2x1.2)	Manufacturer	Microchip Technology	
Package         6-XFDFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Fixed           Number of Regulators         1           Voltage - Input (Max)         5.5V           Voltage - Output (Min/Fixed)         2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         0.5V @ 500mA           Current - Output         50mA           Current - Quiescent (Iq)         -           Current - Supply (Max)         55μA ~ 65μA           PSRR         70dB ~ 60dB (100Hz ~ 1kHz)           Control Features         Enable           Protection Features         Over Current, Over Temperature           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         6-XFDFN Exposed Pad           Supplier Device Package         6-XTDFN (1.2x1.2)	Category	Integrated Circuits (ICs)	
Series-Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.8VVoltage - Output (Max)-Voltage Dropout (Max)0.5V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)-Current - Supply (Max)55μA ~ 65μAPSRR70dB ~ 60dB (100Hz ~ 1kHz)Control FeaturesEnableProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case6-XFDFN Exposed PadSupplier Device Package6-XTDFN (1.2x1.2)		PMIC - Voltage Regulators - Linear	
Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.8VVoltage - Output (Max)-Voltage Dropout (Max)0.5V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)-Current - Supply (Max)55µA ~ 65µAPSRR70dB ~ 60dB (100Hz ~ 1kHz)Control FeaturesEnableProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case6-XFDFN Exposed PadSupplier Device Package6-XTDFN (1.2x1.2)	Package	6-XFDFN Exposed Pad	
Output Type         Fixed           Number of Regulators         1           Voltage - Input (Max)         5.5V           Voltage - Output (Min/Fixed)         2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         0.5V @ 500mA           Current - Output         500mA           Current - Quiescent (Iq)         -           Current - Supply (Max)         55μA ~ 65μA           PSRR         70dB ~ 60dB (100Hz ~ 1kHz)           Control Features         Enable           Protection Features         Over Current, Over Temperature           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         6-XFDFN Exposed Pad           Supplier Device Package         6-XTDFN (1.2x1.2)	Series	-	
Number of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.8VVoltage - Output (Max)-Voltage Dropout (Max)0.5V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)-Current - Supply (Max)55μA ~ 65μAPSRR70dB ~ 60dB (100Hz ~ 1kHz)Control FeaturesEnableProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case6-XFDFN Exposed PadSupplier Device Package6-XTDFN (1.2x1.2)	Output Configuration	Positive	
Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.8VVoltage - Output (Max)-Voltage Dropout (Max)0.5V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)-Current - Supply (Max)55μA ~ 65μAPSRR70dB ~ 60dB (100Hz ~ 1kHz)Control FeaturesEnableProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case6-XFDFN Exposed PadSupplier Device Package6-XTDFN (1.2x1.2)	Output Type	Fixed	
Voltage - Output (Max)       2.8V         Voltage Dropout (Max)       0.5V @ 500mA         Current - Output       500mA         Current - Quiescent (Iq)       -         Current - Supply (Max)       55μA ~ 65μA         PSRR       70dB ~ 60dB (100Hz ~ 1kHz)         Control Features       Enable         Protection Features       Over Current, Over Temperature         Operating Temperature       -40°C ~ 125°C         Mounting Type       Surface Mount         Package / Case       6-XFDFN Exposed Pad         Supplier Device Package       6-XTDFN (1.2x1.2)	Number of Regulators	1	
Voltage - Output (Max)  Voltage Dropout (Max)  Current - Output  500mA  Current - Quiescent (Iq)  - Current - Supply (Max)  PSRR  70dB ~ 65μA  Control Features  Enable  Protection Features  Over Current, Over Temperature  Operating Temperature  40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  Supplier Device Package  - Control Features  - Control Features  Over Current, Over Temperature  - 40°C ~ 125°C  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - Control Features  - Control Features  - Control Features  Over Current, Over Temperature  - Control Features  - C	Voltage - Input (Max)	5.5V	
Voltage Dropout (Max) $0.5V @ 500mA$ Current - Output $500mA$ Current - Quiescent (Iq) - Current - Supply (Max) $55\mu A \sim 65\mu A$ PSRR $70dB \sim 60dB (100Hz \sim 1kHz)$ Control Features Enable Protection Features Over Current, Over Temperature $-40^{\circ}C \sim 125^{\circ}C$ Mounting Type Surface Mount Package / Case $6-XTDFN (1.2x1.2)$	Voltage - Output (Min/Fixed)	2.8V	
Current - Output  Current - Quiescent (Iq)  Current - Supply (Max)  PSRR  70dB ~ 60dB (100Hz ~ 1kHz)  Control Features  Protection Features  Operating Temperature  Operating Type  Surface Mount  Package / Case  Supplier Device Package  500mA  500mA  500mA  55μA ~ 65μA  70dB ~ 60dB (100Hz ~ 1kHz)  Enable  Over Current, Over Temperature  -40°C ~ 125°C  Surface Mount  6-XFDFN Exposed Pad  6-XTDFN (1.2x1.2)	Voltage - Output (Max)	-	
Current - Quiescent (Iq) - Current - Supply (Max) 55 $\mu$ A ~ 65 $\mu$ A 70dB ~ 60dB (100Hz ~ 1kHz) Control Features Enable Protection Features Over Current, Over Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 6-XFDFN Exposed Pad Supplier Device Package 6-XTDFN (1.2x1.2)	Voltage Dropout (Max)	0.5V @ 500mA	
Current - Supply (Max)  55μA ~ 65μA  PSRR  70dB ~ 60dB (100Hz ~ 1kHz)  Control Features  Enable  Protection Features  Over Current, Over Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  6-XFDFN Exposed Pad  Supplier Device Package	Current - Output	500mA	
PSRR  70dB ~ 60dB (100Hz ~ 1kHz)  Control Features  Enable  Protection Features  Over Current, Over Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  6-XFDFN Exposed Pad  Supplier Device Package  6-XTDFN (1.2x1.2)	Current - Quiescent (Iq)	-	
Control Features  Protection Features  Over Current, Over Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  6-XFDFN Exposed Pad  Supplier Device Package  6-XTDFN (1.2x1.2)	Current - Supply (Max)	55μΑ ~ 65μΑ	
Protection Features Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 6-XFDFN Exposed Pad Supplier Device Package 6-XTDFN (1.2x1.2)	PSRR	70dB ~ 60dB (100Hz ~ 1kHz)	
Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  6-XFDFN Exposed Pad  Supplier Device Package  6-XTDFN (1.2x1.2)	Control Features	Enable	
Mounting Type Surface Mount Package / Case 6-XFDFN Exposed Pad Supplier Device Package 6-XTDFN (1.2x1.2)	Protection Features	Over Current, Over Temperature	
Package / Case 6-XFDFN Exposed Pad Supplier Device Package 6-XTDFN (1.2x1.2)	Operating Temperature	-40°C ~ 125°C	
Supplier Device Package 6-XTDFN (1.2x1.2)	Mounting Type	Surface Mount	
	Package / Case	6-XFDFN Exposed Pad	
Report errors?	Supplier Device Package	6-XTDFN (1.2x1.2)	
		I	Report errors?

#### MIC5528-2.8YMX-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.

### MIC5528-2.8YMX-TR Payment Methods





















### MIC5528-2.8YMX-TR Shipping Methods













If you have any question about MIC5528-2.8YMX-TR, please do not hesitate to contact us!

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