



### **VRE210CA-5 Information**

Heisener.com

Part Number VRE210CA-5

Manufacturer Apex Microtechnology Category Integrated Circuits (ICs) PMIC - Voltage Reference

**Description** IC VREF SERIES 10V 20CLCC

Package

For the pricing/inventory/lead time, please contact

Website: https://www.heisener.com For Reference Only 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.









# **VRE210CA-5 Specifications**

Manufacturer Part Number         VRE210CA-5           Manufacturer         Apex Microtechnology           Category         Integrated Circuits (ICs)           Package         20-LCC           Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         10V           Voltage - Output (Max)         -           Current - Output         10mA           Tolerance         ±0.01%           Temperature Coefficient         1ppm/°C Typical           Noise - 0.Hz to 10Hz         6μVp-p           Noise - 10Hz to 10kHz         -           Voltage - Input         13.5 V ~ 22 V           Current - Supply         7mA           Current - Cathode         -           Operating Temperature         -25°C ~ 85°C (TA)           Mounting Type         Surface Mount           Package / Case         20-LCC           Supplier Device Package         20-CLCC		
Category         Integrated Circuits (ICs)           PMIC - Voltage Reference           Package         20-LCC           Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         10V           Voltage - Output (Max)         -           Current - Output         10mA           Tolerance         ±0.01%           Temperature Coefficient         1ppm/°C Typical           Noise - 0.1Hz to 10Hz         6μVp-p           Noise - 10Hz to 10kHz         -           Voltage - Input         13.5 V ~ 22 V           Current - Supply         7mA           Current - Cathode         -           Operating Temperature         -25°C ~ 85°C (TA)           Mounting Type         Surface Mount           Package / Case         20-LCC           Supplier Device Package         20-CLCC	Manufacturer Part Number	VRE210CA-5
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Reference TypeSeriesOutput TypeFixedVoltage - Output (Min/Fixed)10VVoltage - Output (Max)-Current - Output10mATolerance±0.01%Temperature Coefficient1ppm/°C TypicalNoise - 0.1Hz to 10Hz6μVp-pNoise - 10Hz to 10kHz-Voltage - Input13.5 V ~ 22 VCurrent - Supply7mACurrent - Cathode-Operating Temperature-25°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case20-LCCSupplier Device Package20-CLCC	Package	20-LCC
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Voltage - Output (Max)  Current - Output  10mA  Tolerance  ±0.01%  Temperature Coefficient  1ppm/°C Typical  6μVp-p  Noise - 0.1Hz to 10Hz  Voltage - Input  13.5 V ~ 22 V  Current - Supply  7mA  Current - Cathode  Operating Temperature  -25°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  Supplier Device Package	Output Type	Fixed
Current - Output       10mA         Tolerance       ±0.01%         Temperature Coefficient       1ppm/°C Typical         Noise - 0.1Hz to 10Hz       6μVp-p         Noise - 10Hz to 10kHz       -         Voltage - Input       13.5 V ~ 22 V         Current - Supply       7mA         Current - Cathode       -         Operating Temperature       -25°C ~ 85°C (TA)         Mounting Type       Surface Mount         Package / Case       20-LCC         Supplier Device Package       20-CLCC	Voltage - Output (Min/Fixed)	10V
Tolerance ±0.01% Temperature Coefficient 1ppm/°C Typical  Noise - 0.1Hz to 10Hz 6μVp-p  Noise - 10Hz to 10kHz  Voltage - Input 13.5 V ~ 22 V  Current - Supply 7mA  Current - Cathode  Operating Temperature -25°C ~ 85°C (TA)  Mounting Type Surface Mount  Package / Case 20-LCC  Supplier Device Package	Voltage - Output (Max)	-
Temperature Coefficient1ppm/°C TypicalNoise - 0.1Hz to 10Hz6μVp-pNoise - 10Hz to 10kHz-Voltage - Input13.5 V ~ 22 VCurrent - Supply7mACurrent - Cathode-Operating Temperature-25°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case20-LCCSupplier Device Package20-CLCC	Current - Output	10mA
Noise - 0.1Hz to 10Hz $6\mu V p-p$ Noise - 10Hz to 10kHz $-$ Voltage - Input $13.5 \ V \sim 22 \ V$ Current - Supply $7mA$ Current - Cathode $-$ Operating Temperature $-25^{\circ}C \sim 85^{\circ}C \ (TA)$ Mounting Type $Surface \ Mount$ Package / Case $20\text{-LCC}$ Supplier Device Package $20\text{-CLCC}$	Tolerance	±0.01%
Noise - 10Hz to 10kHz - Voltage - Input 13.5 V ~ 22 V  Current - Supply 7mA  Current - Cathode - Current - Cathode - Supplier Temperature -25°C ~ 85°C (TA)  Mounting Type Surface Mount Package / Case 20-LCC  Supplier Device Package 20-CLCC	Temperature Coefficient	1ppm/°C Typical
Voltage - Input  Current - Supply  7mA  Current - Cathode  - Operating Temperature  -25°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  20-LCC  Supplier Device Package	Noise - 0.1Hz to 10Hz	6μVp-p
Current - Supply 7mA  Current - Cathode  Operating Temperature -25°C ~ 85°C (TA)  Mounting Type Surface Mount  Package / Case 20-LCC  Supplier Device Package 20-CLCC	Noise - 10Hz to 10kHz	-
Current - Cathode - Operating Temperature -25°C ~ 85°C (TA)  Mounting Type Surface Mount  Package / Case 20-LCC  Supplier Device Package 20-CLCC	Voltage - Input	13.5 V ~ 22 V
Operating Temperature  -25°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  20-LCC  Supplier Device Package  20-CLCC	Current - Supply	7mA
Mounting Type Surface Mount Package / Case 20-LCC Supplier Device Package 20-CLCC	Current - Cathode	-
Package / Case 20-LCC Supplier Device Package 20-CLCC	Operating Temperature	-25°C ~ 85°C (TA)
Supplier Device Package 20-CLCC	Mounting Type	Surface Mount
	Package / Case	20-LCC
Report errors?	Supplier Device Package	20-CLCC
		Report errors?

#### **VRE210CA-5 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.

### **VRE210CA-5 Payment Methods**





















# **VRE210CA-5 Shipping Methods**













If you have any question about VRE210CA-5, please do not hesitate to contact us!

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