



### 402F200XXCLR Information

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For Reference Only

Part Number 402F200XXCLR

Manufacturer CTS-Frequency Controls

Category Crystals, Oscillators, Resonators

Crystals

**Description** CRYSTAL 20.0000MHZ 12PF SMD

Package 4-SMD, No Lead

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.









# 402F200XXCLR Specifications

Manufacturer Part Number402F200XXCLRManufacturerCTS-Frequency ControlsCategoryCrystals, Oscillators, ResonatorsPackage4-SMD, No LeadSeries402TypeMHz CrystalFrequency20MHzFrequency Stability±15ppmFrequency Tolerance±15ppmLoad Capacitance12pFESR (Equivalent Series Resistance)100 OhmOperating ModeFundamentalOperating Temperature-20°C ~ 70°CRatings-Mounting TypeSurface MountPackage / Case4-SMD, No LeadSize / Dimension0.079" L x 0.063" W (2.00mm x 1.60mm)Height - Seated (Max)0.022" (0.55mm)Report errors?	•	
Crystals, Oscillators, Resonators  Crystals  Package	Manufacturer Part Number	402F200XXCLR
Crystals  Package 4-SMD, No Lead  Series 402  Type MHz Crystal  Frequency 20MHz  Frequency Stability ±15ppm  Frequency Tolerance ±15ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max)	Manufacturer	CTS-Frequency Controls
Package 4-SMD, No Lead  Series 402  Type MHz Crystal  Frequency 20MHz  Frequency Stability ±15ppm  Frequency Tolerance ±15ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max) 0.022" (0.55mm)	Category	Crystals, Oscillators, Resonators
Series 402  Type MHz Crystal  Frequency 20MHz  Frequency Stability ±15ppm  Frequency Tolerance ±15ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max) 0.022" (0.55mm)		Crystals
Type MHz Crystal Frequency 20MHz Frequency Stability ±15ppm Frequency Tolerance ±15ppm Load Capacitance 12pF ESR (Equivalent Series Resistance) 100 Ohm Operating Mode Fundamental Operating Temperature -20°C ~ 70°C Ratings - Mounting Type Surface Mount Package / Case 4-SMD, No Lead Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm) Height - Seated (Max)	Package	4-SMD, No Lead
Frequency Stability ±15ppm  Frequency Tolerance ±15ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max) 0.022" (0.55mm)	Series	402
Frequency Stability  Frequency Tolerance  Load Capacitance  12pF  ESR (Equivalent Series Resistance)  Operating Mode  Operating Temperature  Package / Case  Size / Dimension  Height - Seated (Max)  Frequency Stability  ±15ppm  ±15ppm  100 Ohm  100 Ohm  Fundamental  -20°C ~ 70°C  Surface Mount  -20°C ~ 70°C  Surface Mount  9 Surface Mount  0.079" L x 0.063" W (2.00mm x 1.60mm)	Туре	MHz Crystal
Frequency Tolerance ±15ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max) 0.022" (0.55mm)	Frequency	20MHz
Load Capacitance12pFESR (Equivalent Series Resistance)100 OhmOperating ModeFundamentalOperating Temperature-20°C ~ 70°CRatings-Mounting TypeSurface MountPackage / Case4-SMD, No LeadSize / Dimension0.079" L x 0.063" W (2.00mm x 1.60mm)Height - Seated (Max)0.022" (0.55mm)	Frequency Stability	±15ppm
ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Ratings $-$ Mounting Type Surface Mount  Package / Case $4\text{-SMD}$ , No Lead  Size / Dimension $0.079^{\circ}\text{L} \times 0.063^{\circ}\text{W} (2.00 \text{mm} \times 1.60 \text{mm})$ Height - Seated (Max) $0.022^{\circ}\text{ (0.55 mm)}$	Frequency Tolerance	±15ppm
Operating Mode Fundamental Operating Temperature $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Ratings -  Mounting Type Surface Mount Package / Case 4-SMD, No Lead Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm) Height - Seated (Max) 0.022" (0.55mm)	Load Capacitance	12pF
Operating Temperature $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Ratings $-$ Mounting Type $\text{Surface Mount}$ Package / Case $4\text{-SMD, No Lead}$ Size / Dimension $0.079^{\circ}\text{L x } 0.063^{\circ}\text{W } (2.00\text{mm x } 1.60\text{mm})$ Height - Seated (Max) $0.022^{\circ} (0.55\text{mm})$	ESR (Equivalent Series Resistance)	100 Ohm
Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max) 0.022" (0.55mm)	Operating Mode	Fundamental
Mounting Type Surface Mount  Package / Case 4-SMD, No Lead Size / Dimension 0.079" L x 0.063" W (2.00mm x 1.60mm)  Height - Seated (Max) 0.022" (0.55mm)	Operating Temperature	-20°C ~ 70°C
Package / Case       4-SMD, No Lead         Size / Dimension       0.079" L x 0.063" W (2.00mm x 1.60mm)         Height - Seated (Max)       0.022" (0.55mm)	Ratings	-
Size / Dimension       0.079" L x 0.063" W (2.00mm x 1.60mm)         Height - Seated (Max)       0.022" (0.55mm)	Mounting Type	Surface Mount
Height - Seated (Max) 0.022" (0.55mm)	Package / Case	4-SMD, No Lead
	Size / Dimension	0.079" L x 0.063" W (2.00mm x 1.60mm)
Report errors?	Height - Seated (Max)	0.022" (0.55mm)
		Report errors?

#### 402F200XXCLR 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.

### **402F200XXCLR Payment Methods**



















## 402F200XXCLR Shipping Methods













If you have any question about 402F200XXCLR, please do not hesitate to contact us!

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