	, A∣ ⊛ Diode	Product Line of Incorporated	Æ	PERICOM	
SPECIFICAT	ΓΙΟΝ	FOR	A	PPROVAL	
CUSTOMER					
NOMINAL FREQUENCY		8.000000 MHz			
PRODUCT TYPE		TYPE F9 5.0x3.2 GLASS SEALED CRYSTAL			
SPEC. NO. ( P/N )		F90800028Q			
CUSTOMER P/N					
ISSUE DATE		August 15, 2018			
VERSION		В			
Brenda	PREPARED			QA Dong Yang	
Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indu Zhongli Dist., Taoyuan City 32063 (R.O.C.) TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com	*HF-I *REA	Halogo CH C	emption en Free ompliant 0 Compliant		

# TYPE F9 5.0x3.2 GLASS SEALED CRYSTAL

### F90800028Q

VER. B 15-Aug-18

### **VERSION HISTORY**

/erision No.	Verision Date	Description	Notes
А	Jan.11,2017	Initial Release	
В	Aug.15,2018	Updated logo	



# TYPE F9 5.0x3.2 GLASS SEALED CRYSTAL

### F90800028Q

VER. B 15-Aug-18

#### **ELECTRICAL SPECIFICATIONS**

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	8.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	8	pF	
Calibration Tolerance	FL	±30	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +125	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±100	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	μW	
Maximum Drive Level		300	μW	
Equivalent Series Resistance	ESR	80	Ω	Max
Shunt Capacitance	C0	5	pF	Max.
Aging at 25°C		±3	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	Min



### **TYPE F9 5.0x3.2 GLASS SEALED CRYSTAL**

### F90800028Q

VER. B 15-Aug-18

# **AEC-Q200 RELIABILITY TEST SPECIFICATIONS:** 1. Initial 1.1 Physical Dimensions: JESD22, Method JB1-100 1.2 External Visual: MIL-STD-883, Method 2009 1.3 Freq. Vs. Temperature: Per Specification/Datasheet 2. Mechanical 2.1 Mechanical Shock: MIL-STD-202 Method 213 2.2 Vibration: MIL-STD-202 Method 204 2.3 Solderability: J-STD-002 2.4 Board Flex: AEC Q200-005 2.5 Terminal Strength (SMD): AEC Q200-006 3.Environmental 3.1 Temp Cycle: JESD22, Method JA-104 3.2 Resistance to Solder Heat: MIL-STD-202 Method 210 3.3 High Temperature Operating Life: MIL-STD-202, Method 108 3.4 High Temp. Exposure: MIL-STD-202, Method 108 3.5 High Temp. & High Humidity: MIL-STD-202, Method 103 3.6 Thermal Shock: MIL-STD-202, Method 107

#### SUGGESTED IR REFLOW PROFILE

\*As per IPC-JEDEC J-STD-020D











