Xtal1145S\_series 10.8x4.5mm SMD Crystal

#### **Features and Benefits**

Typical 10.8x4.5x3.4mm standard footprint Low profile for close PCB stacking

## **Typical Applications**

Bluetooth, Wireless LAN Automotive Computers, Modems, Communications Set-top Box, DECT/WDCT

## **Description**

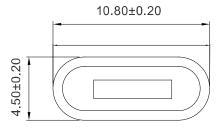
Xtal1145S\_series offers Tight tolerance and 10.8x4.5x3.4mm standard footprint. This device is suitable for use under various telecom and network communication applications

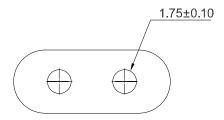
## **Mechanical Drawing & Pin Connections**

[TOP VIEW]

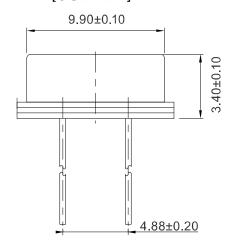
Drawing No: MD180003-1

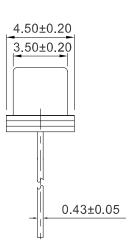
[BOTTOM VIEW]





#### [SIDE VIEW]





Unit in mm 1mm = 0.0394 inches



# Dynamic Engineers Inc.

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## Xtal1145S\_series 10.8x4.5mm SMD Crystal

# **Specifications**

Oscillator Specification	Sym	Condition	Value			1114	Note
			Min.	Тур.	Max.	Unit	Note
Storage temperature			-55		125	°C	
Level of drive				10	800	uW	
Shunt capacitance	C0				7.0	pF	
Insulation resistance			500Moh m@DC 100V				
Equivalent Series Resistance(ESR)		F <sub>o</sub> ≤ 3.58MHz			140		
		4 MHz< F <sub>0</sub> < 5MHz			120	ohm	
		$5MHz \le F_O < 7MHz$			80		
		7MHz ≤F <sub>O</sub> < 9MHz			45		
		$9MHz \le F_0 < 13MHz$			40		
		13MHz ≤F <sub>0</sub> < 16MHz			35		
		16MHz ≤F <sub>O</sub> < 20MHz			30	1	
		20MHz ≤F <sub>O</sub> < 30MHz			25	1	
		30MHz ≤F <sub>0</sub> < 36MHz			25	]	
		36MHz ≤F <sub>0</sub> ≤ 80MHz	$SMHz \le F_0 \le 80MHz$ 80		1		
Aging			±5.0		ppm/year		

# **Ordering Options Availability**

Frequency Stability [ppm]	Operating Temperature Range [°C]			
Frequency Stability [ppiii]	-10 ~ +60	-20 ~ +70	-40 ~ +85	
±5	Not Available	Not Available	Not Available	
±10	Available	Conditional	Not Available	
±15	Available	Available	Not Available	
±20	Available	Available	Available	

Frequency Stability [ppm]	Load Capacitance [pF]						
	8	10	12	16	Series		
±5	Not Available	Not Available	Not Available	Not Available	Conditional		
±10	Not Available	Not Available	Conditional	Conditional	Available		
±15	Conditional	Conditional	Available	Available	Available		
±20	Available	Available	Available	Available	Available		
±30	Available	Available	Available	Available	Available		

Not all combinations of temperature range and stability are available. Please consult DEI for details.