## V Series Crystal



- 5.0mm x 3.2mm x 1.2mm 2 Pads Ceramic Package
- > RoHS Compliant
- > Rugged AT-cut Crystal Construction
- > Tape and Reel Packaging Available

## **ELECTRICAL SPECIFICATIONS:**

## ESR CHART:

LECTRICAL SPECIFICA	inons:	ESK CHART:		
Frequency Range	12.000 MHz to 50.000 MHz			
Frequency Tolerance / Stability	(See Part Number Guide for Options)			
Operable Temperature	(See Part Number Guide for Options)		ESR (Ohms)	Mode / Cut
Storage Temperature	-40°C to +85°C	12.000MHZ to 30.000MHZ	60 Max	Fund / AT
Aging	±5 ppm per year	30.001MHZ to 40.000MHZ	50 Max	Fund / AT
Shunt Capacitance	5 pF	40.001MHZ to 50.000MHZ	40 Max	Fund / AT
Load Capacitance	(See Part Number Guide for Options)			
Oscillation Mode	Fundamental			
Drive Level	10µW typ / 300 max	MARKING:		
Insulation Resistance	500 M ohms / 100 VDC		17	
Shock	MIL-STD-883, Meth 2002, Cond B	Line 1: MXX.XXX XX.XXX = Frequency in MHz		
Solderability	MIL-STD-883, Meth 2003	AA.AAA – Frequency in MHZ		
Solvent Resistance	MIL-STD-202, Meth 2005	Line 2: SYMCCL		
Vibration	MIL-STD-883, Meth 2007, Cond A	S = Internal Code		
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C	YM = Date Code (Year/Month)		
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A	UU = Urvstal Parameters Uode		
The Leak Test	WHE STD 665, Weth 1014, Cold A	L = Denotes Ro	oHS Compliant	
ECHANICALS DETAIL:				
	A0 [.134] MAX 2.00 [.079] 4 2.40 [.094 DIMENSION IN BRACKETS ARE IN INCHES	R	2.00 [ RECOMMENDED AND PATTERN	.079]
ART NUMBER GUIDE:				
Load Ca S = Series 20 = 20pF (	(8pF to 50pF) $N = \pm 10$ ppm / $\pm 10$ ppm * Please consult with MMD sales depa		Added Options D Added Options and Reel	
	<b>mponents</b> , 30400 Esperan : (949) 709-5075, Fax: (94 Sales@mn	8		8

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