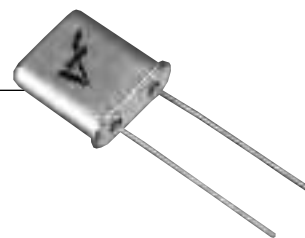


UM-1



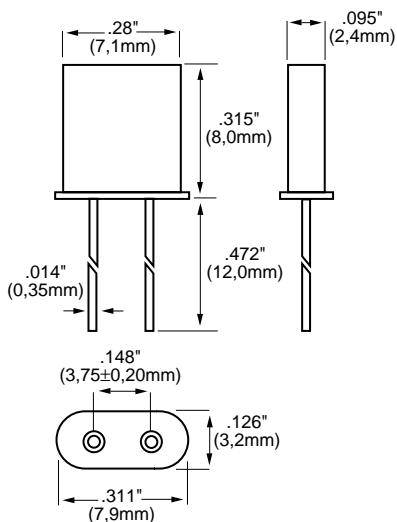
Resistance Weld Miniature Crystal

FEATURES

- Industry Standard Package
- Wide Frequency Range
- Small Footprint
- Low Profile
- Excellent Aging

OPTIONS

- Tape & Reel
- Lower Profile Available
- Metal Jacket



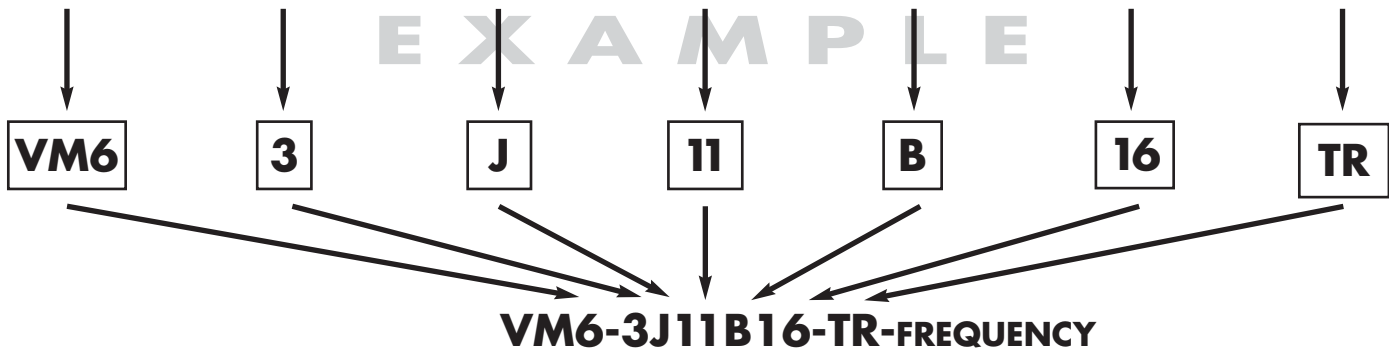
Parameter	Unit	Condition	Min	Typ	Max	Note	
Frequency Range	MHz		3.579545		300		
Frequency Tolerance	ppm	25°C			±50		
Frequency Stability	ppm				±100	Ref. @ 25°C	
Operating Storage	°C		-55		+125		
Shunt Capacitance (C ₀)	pF				7.0		
Load Capacitance (C _L)	pF	Customer Specified	10	18	Series		
Drive Level	mW				1.0		
Aging Per Year	ppm				±3.0		
Frequency Range	Mode	ESR (Ω)					
3.579 - 4.000	Fundamental	300					
4.000 - 5.000	Fundamental	250					
5.000 - 6.000	Fundamental	180					
6.000 - 7.000	Fundamental	120					
7.000 - 8.000	Fundamental	100					
8.000 - 10.000	Fundamental	90					
10.000 - 11.000	Fundamental	60					
11.000 - 27.000	Fundamental	40					
25.000 - 65.000	3rd Overtone	60					
60.000 - 130.000	5th Overtone	100					
130.000 - 300.000	7th Overtone	150					
Typical Temperature Characteristics							
Tolerances	±5 ppm	±10 ppm	±15 ppm	±20 ppm	±25 ppm	±50 ppm	±100 ppm
Temp. Ranges	Y	Y	Y	Y	Y	Y	Y
0 to 50°C	Y	Y	Y	Y	Y	Y	Y
-10 to 60°C	Y	Y	Y	Y	Y	Y	Y
-20 to 70°C	Y	Y	Y	Y	Y	Y	Y
-30 to 80°C	N	N	Y	Y	Y	Y	Y
-40 to 85°C	N	N	N	Y	Y	Y	Y
-55 to 105°C	N	N	N	N	N	Y	Y
-55 to 125°C	N	N	N	N	N	N	Y

Notes:
 1. Please refer to typical temperature characteristics in chart above.
 2. Please reference "Building a Part Number" on page 36 if the desired specification is not found in the "Standard Crystal Part Number Chart" on pages 13-14.

All specifications are subject to change without notice.

BUILDING A PART NUMBER

Package	Mode		Calibration Tolerance		Temperature Stability		Operating Temperature Range		Series/Parallel		Options	
Code/Meaning	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning
VM6	1	Fundamental	A	±5ppm	1	±2ppm	A	0 to 70°C	0	Series	5	3rd Lead
VM6S	3	3rd OT	B	±10ppm	2	±5ppm	B	-20 to 70°C	ENTER VALUE OF		MS	Mylar Spacer
VM6SS	5	5th OT	C	±15ppm	3	±10ppm	C	-40 to 85°C	LOAD CAPACITOR		TR	Tape + Reel
VM6SSM2	7	7th OT	D	±20ppm	4	±15ppm	D	-55 to 125°C	FOR PARALLEL		VS	Vinyl Sleeve
UM-1	9	9th OT	E	±25ppm	5	±20ppm	XX	SPECIAL	CIRCUITS		CL	Cut Leads
UM-4			F	±30ppm	6	±25ppm	E	-10 to 60°C				(spec. length)
UM-5			G	±35ppm	7	±30ppm	F	-0 to 85°C			0	None
NC26			H	±40ppm	8	±35ppm	G	-55 to 105°C				
NC38			I	±45ppm	9	±40ppm	H	-0 to 50°C				
VFSMC-1			J	±50ppm	10	±45ppm						
VFSMC-2			K	±100ppm	11	±50ppm						
VFSMC-3			L	±150ppm	12	±100ppm						
VFSMC-4			M	±200ppm	13	±150ppm						
VFSMC-5			XX	SPECIAL	14	±200ppm						
VFSMC-6					00	SPECIAL						
VM6SSM3												
VM6SSM1												
VFAG												
VFBE												
VFBG												
VFCG												
VFCE												
VFDG												
VFEG												
VFHH												
VFFE												
VFFG												
VFFH												
VF												
VF6SMA												
VF49A16FN1												
VF49A18FN1												
VF49A19FN1												
VF45												



- VM6** = VM6
- 3** = 3rd OT
- J** = ±50ppm calibration at room temperature.
- 11** = ±50ppm temperature stability
- B** = -20 to 70°C operating temperature range over which ±50ppm stability applies
- 16** = 16pF load capacitance
- TR** = Tape + Reel

Note: Some part number options not available with all package types.