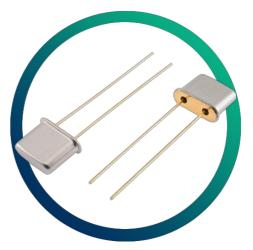


# UM-5

## **Miniature Leaded Crystal**

- Wide frequency range
- Tight specifications available
- Express manufacturing service
- Fundamental mode up to 55.0MHz





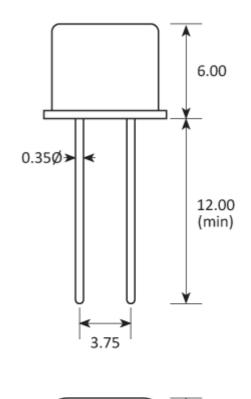
Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±5ppm	L
±7.5ppm	Μ
±10ppm	1
±20ppm	2
±30ppm	3
Temperature stability	
Any	
±5ppm	L
±7.5ppm	Μ
±10ppm	1
±20ppm	2
±30ppm	3
Operating temperature range	
Any	
0 to +50°C	0
-10 to +60°C	1
-20 to +70°C	2
-30 to +80°C	3
-40 to +85°C	4
Circuit condition	
Any	
12pF	В
16pF	D
20pF	F
30pF	J
Series resonant	S
Oscillation mode	
Any	
Fundamental	F
3rd overtone	3
5th overtone	5
7th overtone	7

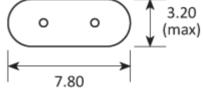


### **SPECIFICATIONS**

Frequency range	10.0 ~ 300MHz	
Dimensions	7.8 x 3.2 x 6.0mm	
Package	Resistance weld	
Storage	-40 to +85°C	
temperature range		
Static capacitance	7pF max	
(C <sub>0</sub> )		
Equivalent series	60Ω max (10.0 ~ 15.99MHz)	
resistance	40Ω max (16.0 ~ 54.99MHz)	
	50Ω max (30.0 ~ 49.99MHz, 3rd OT)	
	60Ω max (50.0 ~ 100MHz, 3rd OT)	
	120Ω max (60.0 ~ 150MHz, 5th OT)	
	150Ω max (130 ~ 300MHz, 7th OT)	
Ageing	±3ppm max first year	
Test drive level	100µW	

#### **PACKAGE DRAWING**





Dimensions in mm



#### **ORDERING INFORMATION**

To request a quotation for the UM-5 please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

#### **ESR VALUES**

CONSTRUCTION

Resistance weld

The table shows the maximum ESR value in ohms across the frequency range of the UM-5

Frequency	Oscillation Mode	ESR Value/ohms
10.0 ~ 15.9	Fundamental	60
16.0 ~ 55.0	Fundamental	40
30.0 ~ 49.0	3rd Overton	50
50.0 ~ 100	3rd Overtone	60
60.0 ~ 150	5th Overtone	120
130 ~ 300	7th Overtone	150

### HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to <500V)



Moisture Sensitivity Level (MSL): 1 (or not applicable)



### COMPLIANCE

Please refer to our **DOCUMENTS** section for more information.



Eead-free (< 0.1% by weight )



RoHS compliant with no exemptions.



REACH compliant.



AulTa Sn W Free of conflict minerals.



Free from halogens.



Free from ozone-depleting substances.