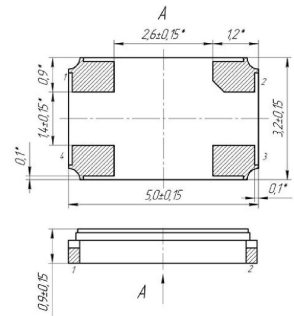
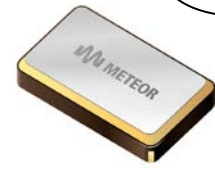
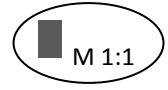


Quartz Resonator 5×3.2 mm 10-45 MHz (fundamental/AT)

Electrical Performance

Parameter	Units	Value
Frequency range	MHz	10 to 45
Frequency tolerance	ppm (code)	±15.0 (6); ±20.0 (7); ±30.0 (8); ±50.0 (9)
Motional resistance (ESR)	ohm	30 max
- 10 to 11 MHz	ohm	25 max
- ov. 11 to 12 MHz	ohm	20 max
- ov. 12 to 20 MHz	ohm	15 max
- ov. 20 to 25 MHz	ohm	15 max
- ov. 25 to 45 MHz	ohm	15 max
Unwanted resonance attenuation in the frequency band ±500 kHz to the main one, dB	dB	≥6
Shunt capacitance:		
- from 10 to 16 MHz	pF	1.4 ... 2.3
- ov. 16 to 25 MHz	pF	1.9 ... 3.2
- ov. 25 to 35 MHz	pF	2.4 ... 3.5
- ov. 35 to 45 MHz	pF	2.1 ... 2.9


 Ceramic package with metal lid
 Plating: Ni+Au(0,3...1 μm)

Pinout

1,3	Signal
2,4	Make No Connection

Frequency Stability (Over Operating Temperature range)

Temperature range, °C (code)	Stability, ppm (code)								
	±7.5 (L)	±10 (M)	±15 (N)	±20 (P)	±25 (R)	±30 (C)	±40 (T)	±50 (U)	±100 (H)
0 ... 70 (K)	+	+	+	+	+	+	+	+	+
-10 ... 60 (A)		+	+	+	+	+	+	+	+
-30 ... 60 (B)			+	+	+	+	+	+	+
-40 ... 70 (V)				+	+	+	+	+	+
-40 ... 85 (C)					+	+	+	+	+
-60 ... 85 (D)						+	+	+	+

Environmental

Shock:
 test Ea. 200 gn acceleration for 0.1-0.2 ms duration, half sine pulse, 2 shocks in each direction along three mutually perpendicular axes at octave per minute

Vibration:
 test Fc. 50Hz 2.0 mm displacement, 1-200 Hz at 20 gn, 8 hours in each of three mutually perpendicular axes at 1 octave per minute

Storage temperature:
 -60°C to 85°C

Long Term Stability

- ±30 ppm max for 15 years
 - ±10 ppm max in 1st year

Ordering Information

 Quartz Resonator **RK513-6VC-45000K-P9**
