

# MG3A

CRYSTAL

SMD



**TYPICAL APPLICATIONS**

Pagers, Cordless Telephones, Cellular Telephones and Computer Clocks

**FEATURES**

Miniature, Resin Mold SMD Package, Hermetic Sealed, Lead-free, Tight Tolerance and Stability, Reflow Soldering, Emboss Taping, Wide Range Operating Temperature, RoHS Compliant Standard



**DIMENSIONS TYPICAL SPECIFICATIONS**

13.1x5.0x5.0[mm]

Model	MG-3A			
Nominal Frequency Range	3.579~40MHz	30~40MHz	30~90MHz	3.579~40MHz
Standard Frequency	4.9152, 7.3728, 14.7456, 28.6363, 35.4689 MHz			
Vibration Mode	Fundamental [AT]	Fundamental [BT]	3rd Overtone [AT]	Fundamental [AT]
Frequency Tolerance (@ +25°C)	±30 ppm			±50 ppm
Freq. Temp. Characteristics (Ref. to 25°C)	±50 ppm	±100 ppm	±50 ppm	±100 ppm
Operating Temperature Range	-10°C~+70°C			-40°C~+85°C
Storage Temperature Range	-40°C~+90°C			
Load Capacitance	Series, 10pF, 12pF, 16pF			
Shunt Capacitance	5pF Max.			
Drive Level	10μW (100μW Max.)			
Equivalent Series Resistance	See Table 1			
Aging (+25°C)	±3, ±5 ppm / year Max.			

Please consult with our sales department for other parameters.

\* Package quantity 1,000 pcs max./reel.

**OUTLINE DIMENSIONS**

Unit:mm

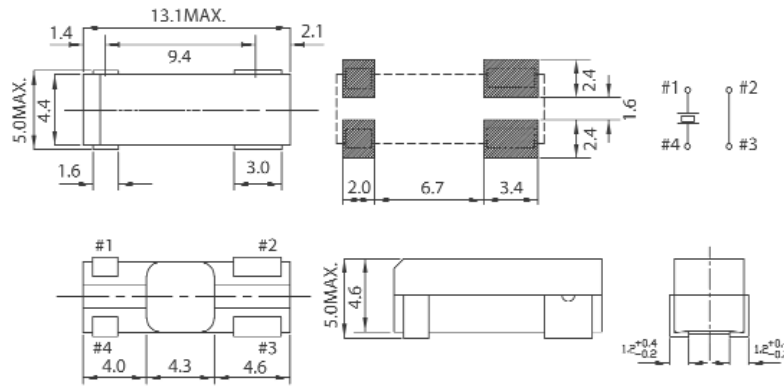


TABLE 1: ESR

Cut	Fundamental		3rd Overtone		
	Frequency (MHz)	ESR (Ω)	Frequency (MHz)	ESR (Ω)	
AT	3.579~3.999	200	AT	30.000~34.999	80
	4.000~4.499	150		35.000~39.999	70
	4.500~4.999	120		40.000~44.999	65
	5.000~5.999	100		45.000~49.999	60
	6.000~8.999	80		50.000~90.000	80
	9.000~9.999	60			
	10.000~12.999	50			
	13.000~18.999	35			
	19.000~40.000	25			
BT	30.000~40.000	20			

All specifications are subject to change without notice.