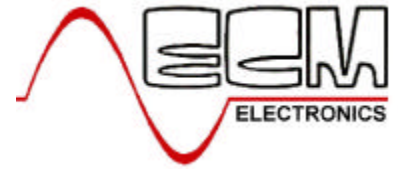


# ECM Surface Mount Crystal

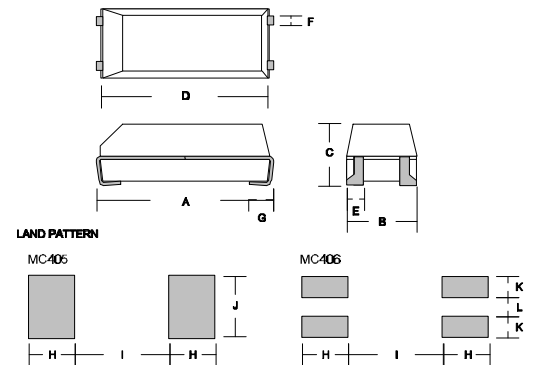


## Epson MC405 / 406

- High Density Mounting
- Excellent Shock Characteristics
- Competitive Prices For Volume Users
- Industry Standard Package
- Tape & Reel or Bulk Packaging

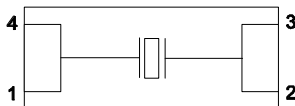


Parameter	MC405 / MC406	
Frequency Range	32.768kHz	20Khz to 165.0kHz + 307.2kHz
Calibration Tolerance @25°C	+/-20ppm +/-50ppm	+/-50ppm +/-100ppm +/-100ppm 307.2kHz
Temperature Tolerance	-0.4ppm/°C <sup>2</sup>	
Operating Temperature	-40°C to +85°C	
Storage Temp	-55°C to +125°C	
Load Capacitance	6pf to ∞ (12.5pF Standard)	
ESR	55KΩ max	55KΩ to 6KΩ
Shunt Capacitance	0.85pF (typ)	2.0pF to 0.6pF
Drive Level	1.0μW	
Shock Resistance	+/-5ppm max	
Ageing	+/-3ppm / yr	+/-5ppm / yr

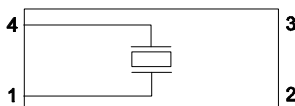


### INTERNAL CONNECTIONS

#### MC405



#### MC406



A	B	C	D	E	F
10.41	4.06	3.60	9.60	0.51	0.51

G	H	I	J	K	L
2.54	4.10	3.90	4.10	1.50	0.80

Dimensions in mm

ECM Electronics Limited, Penmaen House, Ashington, West Sussex, RH20 3JR, UK  
Tel: +44(0)1903 892810: Fax: +44(0)1903 892738. Email: [ecm@ecmelectronics.co.uk](mailto:ecm@ecmelectronics.co.uk)

Although we have attempted to accurately reflect the products we market. ECM reserve the right without prior notice to discontinue any product or make design changes we believe necessary.