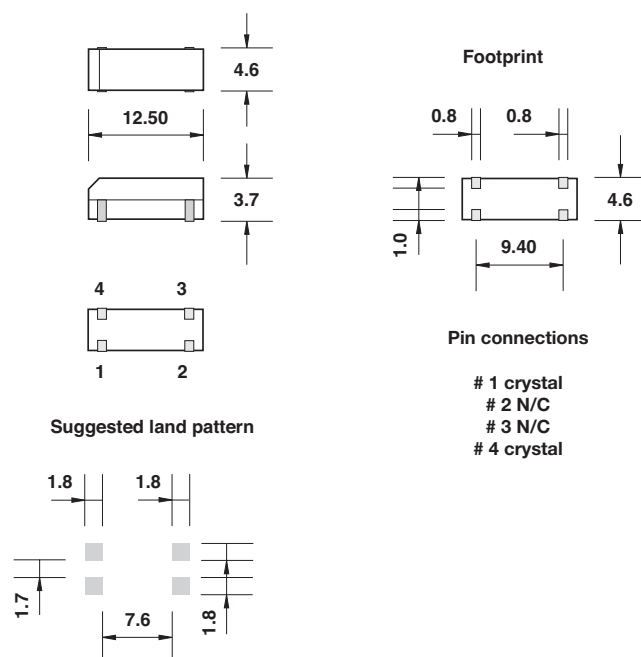


## CM309S encapsulated smd crystal (3.50 ~ 70.0)MHz

- low profile encapsulated
- standard specification
- AT cut
- bulk packed or 24mm tape and reel
- standard and custom frequencies
- RoHS compliant

### Dimensions



### Electrical specification

<b>case style</b>	CM309S: (12.50 x 4.6)mm, height 3.7mm
<b>frequency range</b>	(3.20 ~ 3.00)MHz fundamental, (30.1 ~ 70.0)MHz third overtone
<b>adjustment tolerance</b>	from $\pm 30$ ppm at +25°C, standard
<b>temperature tolerance</b>	from $\pm 50$ ppm as standard
<b>operating temperature</b>	(-40 +85)°C
<b>storage temperature</b>	(-55 +125)°C
<b>load</b>	customer specified
<b>shunt capacitance <math>C_0</math></b>	7.0pF max.
<b>drive level</b>	100 $\mu$ W max.
<b>Q factor</b>	80,000 typical
<b>ageing</b>	$\pm 5$ ppm first year max.
<b>insulation resistance</b>	500Meg. ohm min. at +100Vd.c.
<b>soldering</b>	suitable for re-flow soldering

### Ordering information

<b>EXAMPLE</b>	CM309S crystal, 8.00MHz, load 20pF, $\pm 30$ ppm at +25°C, $\pm 50$ ppm(-40 +85)°C
<b>TFC PART NUMBER</b>	CM309S 8.00M H
<b>CM309S</b>	crystal series: CM309S
<b>8.00M</b>	frequency: 8.00M = 8.00MHz, frequency range from (3.579 ~ 90.0)MHz
<b>H</b>	load capacitance: H = 20pF
<b>OPTIONS</b>	
<b>load capacitance</b>	C: 10pF, D: 12pF, E: 15pF, F: 16pF, G: 18pF, H: 20pF, J: 32pF, S: series