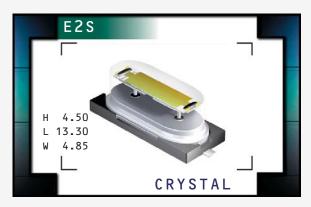
E2S Series

- RoHS Compliant (Pb-Free)
- HC-49/UP package
- AT or BT cut available
- Resistance weld seal
- Tight tolerance/stability
- Tape and reel available





NOTES

ELECTRICAL SPECIFICATIONS

Frequency Range	3.579545MHz to 50.000MHz				
Frequency Tolerance / Stability	±50ppm/±100ppm (Standard), ±30ppm/±50ppm (AT cut only), ±15ppm/±30ppm (AT cut only),				
Over Operating Temperature Range	± 15 ppm / ± 20 ppm (AT cut only), or ± 10 ppm / ± 15 ppm (AT cut only)				
Operating Temperature Range	0°C to 70°C, -20°C to 70°C (AT cut only), or -40°C to 85°C (AT cut only)				
Aging (at 25°C)	±5ppm / year Maximum				
Storage Temperature Range	-40°C to 125°C				
Shunt Capacitance	7pF Maximum				
Insulation Resistance	500 Megaohms Minimum at 100V _{DC}				
Drive Level	1 mWatt Maximum				
Load Capacitance (C _L)	18pF (Standard), Custom C _L ≥10pF, or Series Resonant				

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT

Frequency Range	ESR (Ω)	Mode / Cut	Frequency Range	ESR (Ω)	Mode / Cut
3.579545MHz to 4.999MHz	200 Max	Fundamental / AT	15.000MHz to 15.999MHz	60 Max	Fundamental / AT
5.000MHz to 5.999MHz	150 Max	Fundamental / AT	16.000MHz to 23.999MHz	50 Max	Fundamental / AT
6.000MHz to 7.999MHz	120 Max	Fundamental / AT	24.000MHz to 30.000MHz	40 Max	Fundamental / AT
8.000MHz to 8.999MHz	90 Max	Fundamental / AT	24.000MHz to 40.000MHz	40 Max	Fundamental / BT
9.000MHz to 9.999MHz	80 Max	Fundamental / AT	24.576MHz to 29.999MHz	150 Max	Third Overtone / AT
10.000MHz to 14.999MHz	70 Max	Fundamental / AT	30.000MHz to 50.000MHz	100 Max	Third Overtone / AT

MANUFACTURER CATEGORY SERIES PACKAGE CLASS REV.DATE ECLIPTEK CORP. CRYSTAL E2S HC-49/UP CR44 11/07

