

### AX60 SEAM SEALED CERAMIC SMD CRYSTAL

**6.0 x 3.5 x 1.1 mm  
(4PAD)**



**APPLICATIONS:**  
Wireless Applications  
Communications, Computers  
LED TVs, Test Equipment

**FEATURES:**  
4 pad 6x3.5 Ceramic SMD package  
AT-Cut Fundamental  
Tight Tolerance and Stability Available  
Pb free/ RoHS Compliant

### PART NUMBERING GUIDE

AX60	.....	.....	.....	—	.....	.....	.....	.....
Frequency	Oscillation Mode	Load Capacitance	Freq. Tolerance		Freq. Stability	Operating Temp.	ESR	
(MHz)	F: Fundamental	Please specify (CL)value in pf. SR for series.	10: ± 10ppm 15: ± 15ppm 20: ± 20ppm 25: ± 25ppm 30: ± 30ppm 50: ± 50ppm		10: ± 10ppm 15: ± 15ppm 20: ± 20ppm 25: ± 25ppm 30: ± 30ppm 50: ± 50ppm	A1: -10°C to +60°C A2: -10°C to +70°C A3: -20°C to +70°C A4: -20°C to +85°C A5: -30°C to +85°C A6: -40°C to +85°C	Please refer to below ESR table.	

### ELECTRICAL CHARACTERISTICS

PARAMETERS	SYMBOL	SPECIFICATION
Frequency Range	Fo	8.000 ~ 40.000 MHz
Operation Mode		<b>Fundamental(AT Cut)</b>
Operating Temperature	To	- 20 to + 70°C, -40 to +85°C, or specify
Storage Temperature		- 40°C to + 85°C
Frequency Tolerance at +25°C	Δf/F	± 15 ppm, ± 30 ppm, ± 50 ppm or specify
Frequency Stability Over Operating Temperature Range	Δf/F	± 20 ppm, ± 30 ppm, ± 50 ppm or specify
Equivalent Series Resistance	R1	Please find below Table
Shunt Capacitance	C0	7pF max.
Load Capacitance	CL	series, 18pF(Standard), or specify
Drive Level	DL	300μW max., 100μW typical
Aging at 25°C	Δf/F	± 3ppm max.(first year)
Insulation Resistance		500MΩ min at 100Vdc

### EQUIVALENT SERIES RESISTANCE(ESR)Table

### OUTLINE DRAWING: mm

Frequency Range(MHz)	ESR(Ω) max.
<b>Fundamental</b>	
8.000 ~ 9.999	80
10.000 ~ 11.999	70
12.000 ~ 14.999	60
15.000 ~ 19.999	60
20.000 ~ 34.999	50
35.000 ~ 40.000	40

If you require further assistance, please feel free contact us at antonio@asiastek.com

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