

# ABRACON Microprocessor Crystals



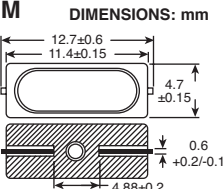
## ABLS/ABLS2 SERIES SMD MICROPROCESSOR CRYSTALS, HC49SM, 12.7 X 4.7MM

### ABLS Series Features:

- Operating temperature: -55°C to +125°C
- Frequency tolerance: ±30ppm
- 18pF load capacitance
- Stability: ±100ppm
- Dimensions: 11.4x4.7x4.2mm

### ABLS2 Series Features:

- Operating temperature: -40°C to +85°C
- Frequency tolerance: ±30ppm
- 18pF load capacitance
- Stability: ±30ppm
- Dimensions: 11.4x4.7x3.3mm



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Abracon Part No.	Freq. (MHz.)	Price Each				
			1	10	50	100	500
<b>ABLS Series</b>							
815-ABLS-6.0ML4Q-T	ABLS-6.000MHZ-L4Q-T	6.0000	1.05	.91	.79	.63	.53
815-ABLS-8.0ML4Q-T	ABLS-8.000MHZ-L4Q-T	8.0000	1.05	.91	.79	.63	.53
815-ABLS-10.0ML4Q-T	ABLS-10.000MHZ-L4Q-T	10.0000	1.05	.91	.79	.63	.53
815-ABLS-12.0ML4Q-T	ABLS-12.000MHZ-L4Q-T	12.0000	1.05	.91	.79	.63	.53
815-ABLS-16.0ML4Q-T	ABLS-16.000MHZ-L4Q-T	16.0000	1.05	.91	.79	.63	.53
815-ABLS-20.0ML4Q-T	ABLS-20.000MHZ-L4Q-T	20.0000	1.05	.91	.79	.63	.53
815-ABLS-24.0ML4QF-T	ABLS-24.000MHZ-L4QF-T	24.0000	1.05	.91	.79	.63	.53
815-ABLS-25.0ML4QF-T	ABLS-25.000MHZ-L4QF-T	25.0000	1.05	.91	.79	.63	.53
815-ABLS-26.0ML4QF-T	ABLS-26.000MHZ-L4QF-T	26.0000	1.05	.91	.79	.63	.53
<b>ABLS2 Series</b>							
815-ABLS2-6-D4Y-T	ABLS2-6.000MHZ-D4Y-T	6.0000	.63	.55	.48	.38	.32
815-ABLS2-8-D4Y-T	ABLS2-8.000MHZ-D4Y-T	8.0000	.63	.55	.48	.38	.32
815-ABLS2-10-D4Y-T	ABLS2-10.000MHZ-D4Y-T	10.0000	.63	.55	.48	.38	.32
815-ABLS2-12-D4Y-T	ABLS2-12.000MHZ-D4Y-T	12.0000	.63	.55	.48	.38	.32
815-ABLS2-12.2-D4Y-T	ABLS2-12.288MHZ-D4Y-T	12.2550	.63	.55	.48	.38	.32
815-ABLS2-16-D4Y-T	ABLS2-16.000MHZ-D4Y-T	16.0000	.63	.55	.48	.38	.32
815-ABLS2-18.4-D4Y-T	ABLS2-18.432MHZ-D4Y-T	18.4320	.63	.55	.48	.38	.32
815-ABLS2-20-D4Y-T	ABLS2-20.000MHZ-D4Y-T	20.0000	.63	.55	.48	.38	.32
815-ABLS2-25-D4YF-T	ABLS2-25.000MHZ-D4YF-T	25.0000	.64	.566	.494	.391	.329
815-ABLS2-26-D4YF-T	ABLS2-26.000MHZ-D4YF-T	26.0000	.62	.55	.48	.38	.319
815-ABLS2-27-D4YF-T	ABLS2-27.000MHZ-D4YF-T	27.0000	.64	.566	.494	.391	.329

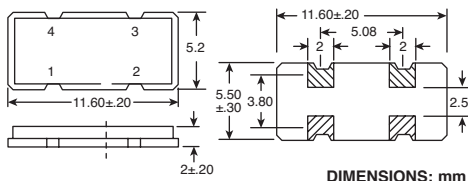
Frequency Control



## ABC2 SERIES MICROPROCESSOR CRYSTALS, LOW FREQUENCY

### Features:

- Low frequency in small size SMD
- 2.0mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental and heat resistance
- Extended temperature -40°C to +85°C for industrial applications



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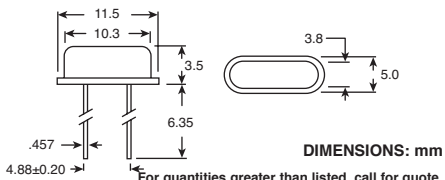
MOUSER STOCK NO.	Abracon Part No.	Freq. (MHz.)	Price Each				
			1	10	50	100	500
815-ABC2-3.57-4-T	ABC2-3.579545MHZ-4-T	3.57955	1.80	1.50	1.35	1.20	1.08
815-ABC2-3.686M-4-T	ABC2-3.6864MHZ-4-T	3.6864	3.00	2.51	2.25	2.00	1.80
815-ABC2-4.0M-4-T	ABC2-4.000MHZ-4-T	4.000	3.00	2.51	2.25	2.00	1.80
815-ABC2-6.0M-4-T	ABC2-6.000MHZ-4-T	6.000	3.28	2.75	2.47	2.19	1.97
815-ABC2-7.372M-4-T	ABC2-7.3728MHZ-4-T	7.3728	1.80	1.50	1.35	1.20	1.08
815-ABC2-8.0M-4-T	ABC2-8.000MHZ-4-T	8.000	2.85	2.38	2.14	1.90	1.71
815-ABC2-10.0M-4-T	ABC2-10.000MHZ-4-T	10.000	3.36	2.82	2.52	2.24	2.02
815-ABC2-11.05M-4-T	ABC2-11.0592MHZ-4-T	11.0592	1.80	1.50	1.35	1.20	1.08
815-ABC2-12.0M-4-T	ABC2-12.000MHZ-4-T	12.000	1.80	1.50	1.35	1.20	1.08
815-ABC2-16.0M-4-T	ABC2-16.000MHZ-4-T	16.000	3.36	2.82	2.52	2.24	2.02
815-ABC2-18.4-4-T	ABC2-18.432MHZ-4-T	18.432	1.80	1.50	1.35	1.20	1.08
815-ABC2-25.0M-4-T	ABC2-25.000MHZ-4-T	25.000	3.84	3.22	2.88	2.56	2.31



## ABL SERIES MICROPROCESSOR CRYSTALS, LEADED, HC49US

### Features:

- Operating temperature: -20°C to +70°C
- Frequency tolerance: ±20ppm
- 18pF load capacitance
- Stability: ±50ppm (-20°C to +70°C)



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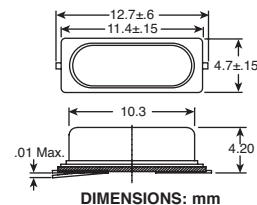
MOUSER STOCK NO.	Abracon Part No.	Freq. (MHz.)	Price Each				
			1	10	50	100	500
815-ABL-3.579545B2	ABL-3.579545MHZ-B2	3.57955	.39	.33	.30	.27	.22
815-ABL-4-B2	ABL-4.000MHZ-B2	4.000	.39	.33	.30	.27	.22
815-ABL-6-B2	ABL-6.000MHZ-B2	6.000	.39	.33	.30	.27	.22
815-ABL-7.3728-B2	ABL-7.3728MHZ-B2	7.3728	.39	.33	.30	.27	.22
815-ABL-8-B2	ABL-8.000MHZ-B2	8.000	.39	.33	.30	.27	.22
815-ABL-12-B2	ABL-12.000MHZ-B2	12.000	.39	.33	.30	.27	.22
815-ABL-16-B2	ABL-16.000MHZ-B2	16.000	.39	.33	.30	.27	.22
815-ABL-18.432-B2	ABL-18.432MHZ-B2	18.432	.39	.33	.30	.27	.22
815-ABL-20-B2	ABL-20.000MHZ-B2	20.000	.39	.33	.30	.27	.22
815-ABL-25-B2F	ABL-25.000MHZ-B2F	25.000	.39	.33	.30	.27	.22



## ABLS ULTRA LOW ESR SMD CRYSTAL

### Features:

- Ultra low ESR as low as 20 ohms for 4MHz, 85% lower than typical ABLS 4MHz
- Low negative resistance(-R) IC design can ensure high oscillation margin
- Tight stability and automotive grade temperature available
- Hermetically resistance weld sealed
- Designed to mate with next-generation micro controller and transceiver circuits enabling designers to arrive at low power solutions, without compromising performance
- Crystals are optimized to properly function under low drive level conditions of a few uW up to 500uW without impacting the gain margin of the oscillator loop.



For quantities greater than listed, call for quote.

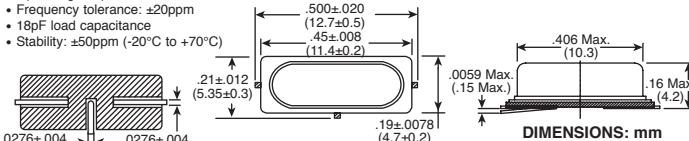
MOUSER STOCK NO.	Abracon Part No.	Freq. (MHz.)	Max ESR (Ω)	Price Each				
				1	10	50	100	500
815-ABLS-LR-3.0M-T	ABLS-LR-3.000MHZ-T	3.000000	30	3.60	3.24	2.88	2.59	2.45
815-ABLS-LR-3.272M-T	ABLS-LR-3.2768MHZ-T	3.276800	30	3.60	3.24	2.88	2.59	2.45
815-ABLS-LR-3.579M-T	ABLS-LR-3.579545MHZ-T	3.579545	30	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-3.686M-T	ABLS-LR-3.6864MHZ-T	3.686400	30	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-4.0M-T	ABLS-LR-4.000MHZ-T	4.000000	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-4.19M-T	ABLS-LR-4.194304MHZ-T	4.194304	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-4.43M-T	ABLS-LR-4.433619MHZ-T	4.433619	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-4.500M-T	ABLS-LR-4.500MHZ-T	4.500000	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-4.91M-T	ABLS-LR-4.915200MHZ-T	4.915200	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-5.0M-T	ABLS-LR-5.000MHZ-T	5.000000	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-6.0M-T	ABLS-LR-6.000MHZ-T	6.000000	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-6.144M-T	ABLS-LR-6.144MHZ-T	6.144000	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-6.74M-T	ABLS-LR-6.7458MHZ-T	6.745800	20	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-7.37M-T	ABLS-LR-7.3728MHZ-T	7.372800	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-8.0M-T	ABLS-LR-8.000MHZ-T	8.000000	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-9.216M-T	ABLS-LR-9.216MHZ-T	9.216000	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-9.83M-T	ABLS-LR-9.8304MHZ-T	9.830400	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-10.0M-T	ABLS-LR-10.000MHZ-T	10.000000	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-10.24M-T	ABLS-LR-10.2400MHZ-T	10.240000	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-11.05M-T	ABLS-LR-11.0592MHZ-T	11.059200	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-12.0M-T	ABLS-LR-12.000MHZ-T	12.000000	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-12.28M-T	ABLS-LR-12.288MHZ-T	12.288000	15	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-13.0M-T	ABLS-LR-13.000MHZ-T	13.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-13.50M-T	ABLS-LR-13.500MHZ-T	13.500000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-14.31M-T	ABLS-LR-14.31818MHZ-T	14.318180	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-14.74M-T	ABLS-LR-14.7456MHZ-T	14.745600	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-15.0M-T	ABLS-LR-15.000MHZ-T	15.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-15.36M-T	ABLS-LR-15.360MHZ-T	15.360000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-16.0M-T	ABLS-LR-16.000MHZ-T	16.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-16.38M-T	ABLS-LR-16.384MHZ-T	16.384000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-16.93M-T	ABLS-LR-16.9344MHZ-T	16.934400	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-18.0M-T	ABLS-LR-18.000MHZ-T	18.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-18.43M-T	ABLS-LR-18.432MHZ-T	18.432000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-19.66M-T	ABLS-LR-19.6608MHZ-T	19.660800	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-20.0M-T	ABLS-LR-20.000MHZ-T	20.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-24.0M-T	ABLS-LR-24.000MHZ-T	24.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-24.5MF-T	ABLS-LR-24.576MHZ-F-T	24.576000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-25.0MF-T	ABLS-LR-25.000MHZ-F-T	25.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-27.0MF-T	ABLS-LR-27.000MHZ-F-T	27.000000	10	1.80	1.62	1.44	1.30	1.22
815-ABLS-LR-30.0M-T	ABLS-LR-30.000MHZ-T	30.000000	10	1.80	1.62	1.44	1.30	1.22



## ABLSG SERIES 3RD LEAD CASE-GROUNDED SMD LOW PROFILE CRYSTAL, 5.35 X 12.7

### Features:

- Operating temperature: -20°C to +70°C
- Frequency tolerance: ±20ppm
- 18pF load capacitance
- Stability: ±50ppm (-20°C to +70°C)



For quantities greater than listed, call for quote.