

ABRACON Resonators, Filters, Oscillators, and Crystals



RoHS Compliant This page of product is RoHS compliant.

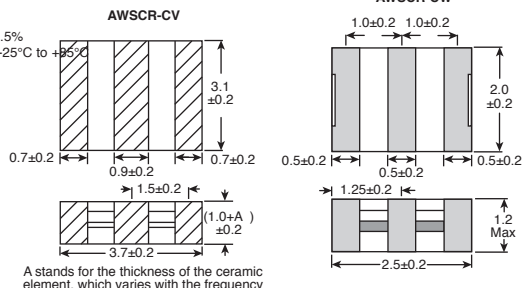
AWSER SERIES - BUILT-IN CAP, CERAMIC RESONATORS, SMD

DIMENSIONS: mm

For quantities greater than listed, call for quote.

Features:

- Industrial grade
- Frequency tolerance: $\pm 0.5\%$
- Operating temperature: -25°C to $+85^{\circ}\text{C}$



A stands for the thickness of the ceramic element, which varies with the frequency

MOUSER STOCK NO.	Abracon Part No.	Freq. (MHz)	Price Each			
			1	10	100	500
3.7mm x 3.1mm						
815-AWSCR-8.00CV-T	AWSCR-8.00CV-T	8.0000	.33	.275	.22	.209
815-AWSCR-11.00CV-T	AWSCR-11.00CV-T	11.0000	.39	.325	.26	.247
815-AWSCR-12.00CV-T	AWSCR-12.00CV-T	12.0000	.36	.30	.24	.228
815-AWSCR-16.00CV-T	AWSCR-16.00CV-T	16.0000	.36	.30	.24	.228
815-AWSCR-18.43CV-T	AWSCR-18.43CV-T	18.4300	.36	.30	.24	.228
815-AWSCR-20.00CV-T	AWSCR-20.00CV-T	20.0000	.36	.30	.24	.228
815-AWSCR-24.00CV-T	AWSCR-24.00CV-T	24.0000	.39	.325	.26	.247
815-AWSCR-25.00CV-T	AWSCR-25.00CV-T	25.0000	.39	.325	.26	.247
815-AWSCR-27.00CV-T	AWSCR-27.00CV-T	27.0000	.39	.325	.26	.247
815-AWSCR-32.00CV-T	AWSCR-32.00CV-T	32.0000	.45	.375	.30	.285
815-AWSCR-40.00CV-T	AWSCR-40.00CV-T	40.0000	.48	.40	.32	.304
2.5mm x 2.0mm						
815-AWSCR-20.00CW-T	AWSCR-20.00CW-T	20.0000	.39	.325	.26	.247
815-AWSCR-24.00CW-T	AWSCR-24.00CW-T	24.0000	.39	.325	.26	.247
815-AWSCR-30.00CW-T	AWSCR-30.00CW-T	30.0000	.42	.35	.28	.266
815-AWSCR-32.00CW-T	AWSCR-32.00CW-T	32.0000	.42	.35	.28	.266
815-AWSCR-48.00CW-T	AWSCR-48.00CW-T	48.0000	.51	.425	.34	.323

Abracon Frequency Control

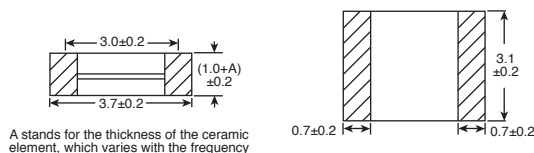
AWSZT SERIES - CERAMIC RESONATORS, SMD

Features:

- Industrial grade
- Frequency tolerance: $\pm 0.5\%$
- Operating temperature: -25°C to $+85^{\circ}\text{C}$

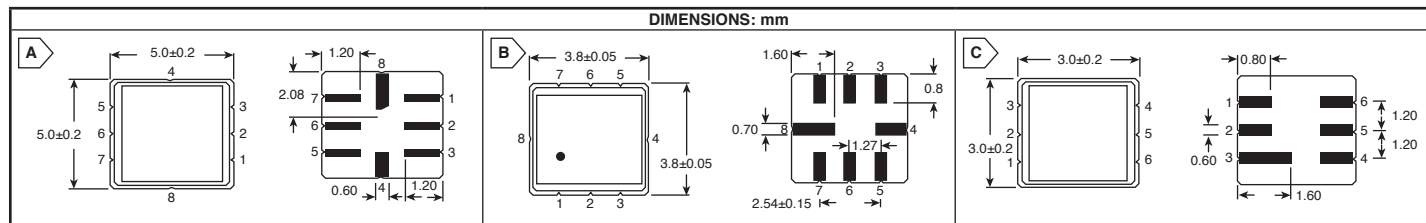
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Abracon Part No.	Freq. (MHz)	Price Each			
			1	10	100	500
815-AWSZT-8.00CV-T	AWSZT-8.00CV-T	8.0000	.36	.30	.24	.228
815-AWSZT-10.00CV-T	AWSZT-10.00CV-T	10.0000	.36	.30	.24	.228
815-AWSZT-16.00CV-T	AWSZT-16.00CV-T	16.0000	.36	.30	.24	.228
815-AWSZT-20.00CV-T	AWSZT-20.00CV-T	20.0000	.36	.30	.24	.228
815-AWSZT-24.00CV-T	AWSZT-24.00CV-T	24.0000	.36	.30	.24	.228



A stands for the thickness of the ceramic element, which varies with the frequency

DIMENSIONS: mm



SAW FILTERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Abracon Part No.	Fig.	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Price Each			
						1	10	50	100
815-AFS315E	AFS315E	A	315	± 0.3	3.0	1.67	1.18	1.15	1.02
815-AFS418S3	AFS418S3	B	418	± 2	2.5	1.67	1.18	1.15	1.02
815-AFS434S3	AFS434S3-T	B	434	± 2	2.5	1.67	1.18	1.15	1.02
815-AFS915S3	AFS915S3	B	915	± 3.5	2.9	1.67	1.18	1.15	1.02
815-AFS916.5S3	AFS916.5S3	B	916.5	± 0.6	4.5	1.67	1.18	1.15	1.02
815-AFS930S3	AFS930S3-T	B	930	± 2	2.8	1.67	1.18	1.15	1.02
815-AFS1575.42S4	AFS1575.42S4	C	1575.42	± 1.2	1.5	1.88	1.33	1.30	1.14

SAW RESONATORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Abracon Part No.	Fig.	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Price Each			
						1	10	50	100
815-ASR303.825E	ASR303.825E	A	303.825	± 75	1.3	1.28	1.13	1.05	.94
815-ASR423.22E	ASR423.22E	A	423.22	± 75	1.3	1.28	1.13	1.05	.94
815-ASR433.92E	ASR433.92E	A	433.92	± 75	1.3	1.28	1.13	1.05	.94
815-ASR915E	ASR915E	A	915	± 250	1.5	1.28	1.13	1.05	.94

MEMSPEED PRO II™ CLOCK OSCILLATOR PROGRAMMER

Features:

- The MEMSpeed Pro II programmer allows users to instantly program Abracon MEMS oscillators to a custom frequency in seconds thru a Microsoft Windows GUI program on a PC
- Abracon MEMSpeed Pro II supports CMOS, LVPECL, LVDS, and HCSL output MEMS oscillators in variety of package sizes
- The oscillators can be programmed over their respective frequency range in increments of 100Hz (up to four decimal point resolution)
- Fully backwards compatible with MEMSpeed Pro Blanks

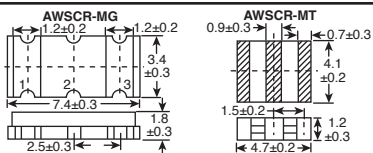


MOUSER STOCK NO.	Abracon Part No.	Kit Includes	Price Each
			1
Socket Adapter Kits			
815-ASDMB-ADAPTER	ASDMB-ADAPTER-KIT	4 pin 2.5x2.0mm socket adapter and 50 unprogrammed 2.5X2.0mm ASDMB oscillators with $\pm 25\text{ppm}$ over -40°C to $+85^{\circ}\text{C}$	80.55
815-ASEMB-ADAPTER	ASEMB-ADAPTER-KIT	4 pin 3.2x2.5mm socket adapter and 50 unprogrammed 3.2X2.5mm ASEMB oscillators with $\pm 25\text{ppm}$ over -40°C to $+85^{\circ}\text{C}$	80.55
815-ASFLMB-ADAPTER	ASFLMB-ADAPTER-KIT	4 pin 5.0x3.2mm socket adapter and 50 unprogrammed 5.0X3.2mm ASFLMB oscillators with $\pm 25\text{ppm}$ over -40°C to $+85^{\circ}\text{C}$	80.55
815-ASFLMPLV-ADAPTER	ASFLMPLV-ADAPTER-KIT	6 pin 5.0x3.2mm socket adapter and 50 unprogrammed 5.0X3.2mm ASFLMPLV LVDS oscillators with $\pm 25\text{ppm}$ over -40°C to $+85^{\circ}\text{C}$	80.55
815-ASVMB-ADAPTER	ASVMB-ADAPTER-KIT	4 pin 7.0x5.0mm socket adapter and 50 unprogrammed 7.0X5.0mm ASVMB oscillators with $\pm 25\text{ppm}$ over -40°C to $+85^{\circ}\text{C}$	80.55
Oscillator Programmer			
815-MEMSPROII	MEMSPeed Pro II	MEMSPEED II programmer, USB cable, tweezers, Quick Start guide and Installation USB Flash drive	175.00

AWSER SERIES BUILT-IN CAP CERAMIC RESONATORS, SMD

Features:

- Frequency tolerance: $\pm 0.5\%$
- Operating temperature: -40°C to $+85^{\circ}\text{C}$
- Low resonant impedance
- Industrial grade

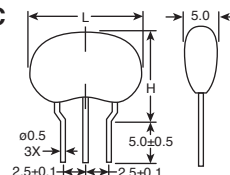


MOUSER STOCK NO.	Abracon Part No.	Frequency (MHz)	Price Each			
			1	10	100	500
815-AWSCR-3.58MGD-T	AWSCR-3.58MGD-T	3.5800	.36	.30	.24	.228
815-AWSCR-4.00MGD-T	AWSCR-4.00MGD-T	4.0000	.36	.30	.24	.228
815-AWSCR-6.00MGD-T	AWSCR-6.00MGD-T	6.0000	.36	.30	.24	.228
815-AWSCR-8.00MGD-T	AWSCR-8.00MGD-T	8.0000	.36	.30	.24	.228
815-AWSCR-16.00MTD-T	AWSCR-16.00MTD-T	16.0000	.39	.325	.26	.247
815-AWSCR-20.00MTD-T	AWSCR-20.00MTD-T	20.0000	.39	.325	.26	.247
815-AWSCR-24.00MTD-T	AWSCR-24.00MTD-T	24.0000	.39	.325	.26	.247
815-AWSCR-32.00MTD-T	AWSCR-32.00MTD-T	32.0000	.39	.325	.26	.247
815-AWSCR-40.00MTD-T	AWSCR-40.00MTD-T	40.0000	.39	.325	.26	.247

AWCR SERIES BUILT-IN CAP CERAMIC RESONATORS, LEADED

Features:

- Frequency Tolerance: $\pm 0.5\%$
- Operating Temperature: -40°C to $+85^{\circ}\text{C}$
- Low resonant impedance
- Excellent environmental resistance
- Reflow capable
- High stability washable type
- Industrial grade



MOUSER STOCK NO.	Abracon Part No.	Frequency (MHz)	Dimensions: mm		Price Each			
			L (Max.)	H (Max.)	1	25	100	500
815-AWCR-2.00MD	AWCR-2.00MD	2.0000	10.00	8.0	.27	.225	.18	.171
815-AWCR-3.58MD	AWCR-3.58MD	3.5800	10.00	8.0	.27	.225	.18	.171
815-AWCR-4.00MD	AWCR-4.00MD	4.0000	10.00	8.0	.27	.225	.18	.171
815-AWCR-6.00MD	AWCR-6.00MD	6.0000	10.00	8.0	.27	.225	.18	.171
815-AWCR-16.00MD	AWCR-16.00MD	16.0000	10.00	10.00	.27	.225	.18	.171
815-AWCR-20.00MD	AWCR-20.00MD	20.0000	10.00	10.00	.27	.225	.18	.171