

THE HEARTBEAT OF THE IOT™

ABRACON QUARTZ CRYSTALS

ABS06W / ABS07W / ABM8W / ABM10W / ABM11W / ABM12W

ESR OPTIMIZED QUARTZ CRYSTALS

What makes the IoT tick? Abracon's low equivalent resistance (ESR) and low plating capacitance (CL) crystals are ideal for low power MCUs and portable communications chipsets. In the race to lower power consumption, many on-chip oscillators are being starved of output drive and often cannot sustain oscillation using standard crystals.

Abracon offers the most comprehensive series of low CL and low ESR crystals in miniature SMD packages addressing the challenges associated with low power SoC's and MCU's.

PRODUCT FEATURES

- Optimized for low power MCU and PAN/LAN chipsets
- Guaranteed low ESR ensures operation in low power applications
- 0.50mm max height ideally suited for height constrained designs
- Seam sealed for long-term reliability

KEY APPLICATIONS

- Wearables
- Internet of Things
- Bluetooth/ Bluetooth Low Energy
- Wireless Modules
- Machine-to-Machine Connectivity
- Ultra Low Power MCU Modules
- WiFi

Series	Footprint (mm)	Height (mm)	Frequency Range (MHz)	CL Options (pF)	Max ESR (Ω)	Tolerance Options (ppm)	Temp Options	Stability Options (ppm)
ABM12W	1.6x1.2	0.40	24 - 52	4, 6, 7, or 8	80-120	±10 or ±20	-40°C to 125°C	±50
ABM11W	2.0x1.6	0.50	16 - 50		60-200		-40°C to 105°C	
ABM10W	2.5x2.0	0.60	16 - 50		70-100		-40°C to 85°C	±20
ABM8W	3.2x2.5	0.75	10 - 54		50-150		-20°C to 70°C	±10
ABS07W	3.2 x 1.5	0.9	32.768kHz	3	45-70	±10	-40°C ~+125°C	--
ABS06W	2.0 x 1.2	0.6	32.768kHz	3	65-120	±10	-40°C ~+125°C	--

