

Lug Connection

Series: BPAK



> Features:

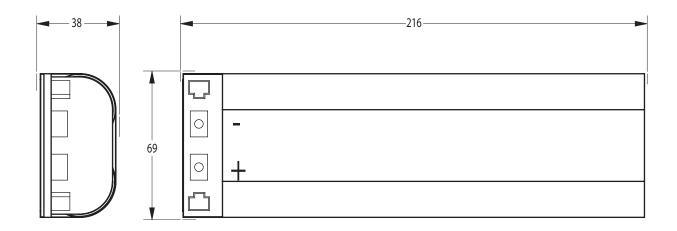
- > 15 V working voltage
- > Individually balanced cells
- > Compact, efficient packaging
- Strap mountable
- Module-to-module balance cable included



Applications:

- Automotive subsystems
- > Heavy duty vehicle subsystems
- > Rail system power
- Windmill pitch control systems
- Wireless transmissions

> Dimensions:



			Dimensions, mm					Typical
Case size	Part #	Balancing	L	W	T	Weight [g]	Vol. [l]	package qty
BPAK0350-15EA	103958	Active	216	69	38	500	0.566	1
BPAK0350-15ER	103957	Passive	216	69	38	500	0.566	1

Product dimensions and specifications may change without notice. Please contact Maxwell Technologies directly for any technical specifications critical to application.

Specifications:

		Pr	cification			
	BPAK0350-15EA	BPAK0350-15ER	Tolerance	Standard		
Mounting	Shock mo	ount inside enclos				
Capacitance, C _R [F]	58		+/- 20%			
Voltage, U _R	15					
Internal resistance, DC [ohm]	0.018		+/- 25 %	Discharging at Constant Current (25°C)		
Internal resistance, 1 kHz [ohm]	0.009		+/- 25 %	Discharging at Constant Current (25°C)		
Rated current, [A]	47					
Leakage current [mA]	0.001	0.05		72 hrs, 25°C		
Operating temp. range [C]		-40 to 65				
Storage temp. range [C]		-40 to 70				
Endurance, Capacitance [F]	< 2	20% decrease				
Endurance, Resistance [ohm]	< ;	25% increase	1000 hrs @ U _R and 65°C			
Power, P _d [W/kg]		3,000				
Power, P _v [W/I]		2,650	See additional technical information			
Life Time	△C < 20% decre	ease, ESR < 200°	from initial value after 10y @ 25°C			
Cycle Life	△C < 20% decrease, ESR < 200% increase			from initial value after 500K cycles @ 25°C (I = 5A)		

Markings: Packs are marked with the following information

Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal

Mounting Recommendations:

Units may be mounted and operated in any orientation. The pack should be shock mounted within a protective enclosure. Care should be taken to prevent motion between the pack and the enclosure. This motion can wear through the shrink-wrap covering over time and expose electrically conductive surfaces.

Additional Technical Information:

$$P_d = (0.12 \text{ x E}^2/R_d)/M$$

where $E = \text{charge voltage } (U_R)$,

 R_d = internal resistance (DC)

 $P_{v} = (0.12 \text{ x E}^{2}/R_{d})/V$

where V = capacitor volume (l)

US Patent: 6,806,686 and additional Patents Pending

M = capacitor weight (kg)

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