COTS DC-DC Converters Target Military, Avionic Apps

XP Power introduced the MTC35 and MTC50 Series of commercial off the shelf (COTS) 35-W and 50-W DC/DC converters aimed at a broad range of military vehicle and avionics applications. These encapsulated board mounted modules accommodate a wide input range from 10 V to 40 VDC, and can handle transients up to 50 VDC for up to 100 ms. Single output modules are available with +3.3 V, +5 V, +12 V, +15 V or + 28 VDC outputs and can be adjusted between -20 percent and +10 percent via an external trim pin. When used in conjunction with XP Power's DSF, FSO or MTF Series of standard EMI filter modules, the MTC Series comply with MIL-STD 1275A/B/C/D and MIL-STD 704A standards for surges and transients, and MIL-STD 461E/F for conducted emissions and susceptibility. The units meet the environmental MIL-STD 810F specification that covers shock, vibration, humidity, temperature, salt spray and altitude.

Control and signal pins provide the ability to inhibit output, provide thermal warning and converter shutdown, and synchronise converter frequency to an external source in the 400 kHZ to 500 kHz range. Remote sense compensates for up to a 0.5 VDC drop on the output.

XP Power
800-253-0490, www.xppower.com
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