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PRESS RELEASE

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New SMT V-Chip Capacitors With +260°C Ratings

NIC Components has introduced six new series of SMT V-Chip capacitors that feature +260°C soldering heat ratings. The liquid electrolyte, aluminum electrolytic capacitors are compatible with the requirements of Sn-Ag-Cu (SAC) alloy lead-free soldering process. Common SAC solder alloys have a melting point of 217°C. A peak reflow soldering temperature of between 12°C and 43°C above the melting point is typically recommended (by solder alloy makers) in order to achieve good wetting and to form a quality solder joint. The time period above melting point should be dependent upon the application / assembly. SAC solder alloys have emerged as the industry standard replacement for Sn-Pb solder alloys that were used extensively prior to the implementation of RoHS legislation earlier in 2006.

The new NASE, NAWE, NAWT, NAZK, NAZT and NAZU series, from NIC, provide designers with an extensive choice of devices for use in applications that demand characteristics such as low ESR, wide operating temperature range, and small form factors. Available case diameters for +260°C soldering heat rated capacitors are 4mm, 5mm, 6.3mm and 8mm. Larger case sizes; 10mm, 12.5mm and 16mm are rated for +250°C, +240°C and +235°C peak reflow temperatures respectively.

These new series from NIC cover voltage ratings of between 6.3VDC and 50VDC, and capacitance values from 0.1µF to 6800µF with load life ratings from 1000 hours to 5000 hours at maximum rated temperatures; +85°C and +105°C .

All of the new ranges of parts are supplied in tape and reel packaging for automatic placement and reflow soldering. Order samples online at www.niccomp.com. Unit pricing ranges from \$0.06 - \$0.69 each depending upon series and case size.

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