Miniature Radial Multi-Position Switch

Dow-Key Microwave (a subsidiary of Dover Corp.) recently released a Micro Miniature Radial Multi-position (SP3T to SP6T) Switch designated P/N 567-5308. The switch performs up to 18 GHz. DC characteristics include 24 - 32 V DC (28 V DC nominal operating current is 130 mA typical @ 20 &#176 C). The switch is equipped with an actuator, providing a &quotnormally open&quot mode of operation. Switching time is 15 ms.
This small switch provides a basic building block for the manufacture of VXI and PXI microwave switch modules. Up to seven switches can be housed in a single C size VXIbus card slot. Due to its small size, the cards can be designed with front panel plug-in switches. This plug-in concept allows the user to replace a switch without service interruption in other segments of the card.
Specification include VSWR (max.) of 1.20:1 for DC - 3 GHz, 1.30:1 for 3 - 8 GHz, 1.40:1 for 8 - 12.4 GHz, and 1.50:1 for 12.4 to 18 GHz. Insertion loss (max.) is 0.20 dB for DC- 3 GHz, 0.30 for 3 - 8 GHz, 0.40 dB for 8 - 12.4 GHz, and 0.50 dB for 12.4 - 18 GHz. Isolation (min.) is 80 dB for DC - 3 GHz, 70 dB for 3 - 8 GHz, and 60 dB for both the 8 - 12.4 GHz and 12.4 - 18 GHz ranges.

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