

# 0° DIVIDERS/COMBINERS - PDG-02B-50 SQ

## TECHNICAL FEATURE

### FEATURES

- Space Qualified
- 1 - 100 MHz
- 2 Way Surface Mount
- Hi-Rel Welded Construction to Pass IR Reflow



### PERFORMANCE

Frequency Range.....	1 - 100 MHz
Isolation.....	30 min., 35 typ. dB
Insertion Loss.....	0.7 max., 0.5 typ. dB
Amplitude Balance.....	0.15 max., 0.1 typ. dB
Phase Balance.....	2° max., 1° typ.
VSWR Input/Output.....	1.3:1 max., 1.2:1 typ.
Input Power.....	1 W max.
Coupling.....	3.0 dB nom.
Impedance.....	50 Ohm nom.
Internal Power Dissipation.....	50 mW max.
Operating Temperature.....	-55° to +85° C

### DESCRIPTION

The PDG-02B-50 SQ surface mount 2 way power dividers/combiners, covers a frequency range of 1 to 100 MHz using a special lumped element design to reduce the size while maintaining high performance. Unit consists of a welded construction. The surface mount housing has been designed for airborne and space applications where inherent package reliability and hermeticity are critical. Parts, materials and processes in accordance with Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

