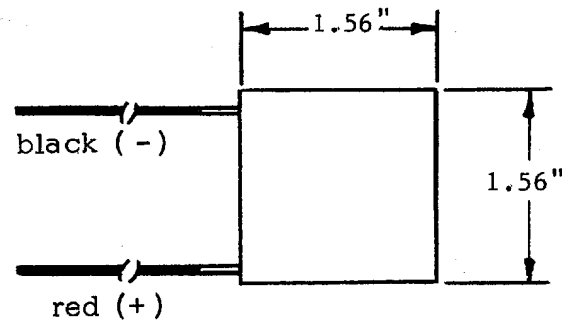
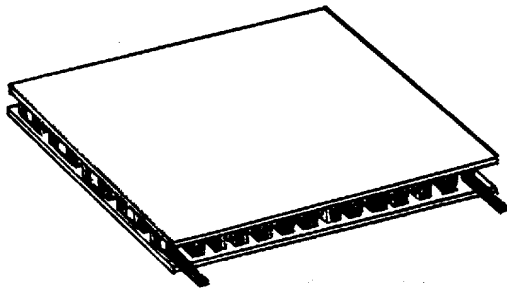




Materials Electronic Products Corporation

CPI. 4-127-045L

TECHNICAL DATA



Available in 3, 7, 11, 17, 31, and 71 thermocouple sizes.

Refer to Module Specification Tables for performance and dimensional data.

*Hot surface also available Metalized and tinned (Type TL)

APPLICATION:

A low current, moderate capacity module, especially suited for direct 12 volt D. C. battery operation.

DESCRIPTION:

A low current ceramic insulated thermoelectric module. Each module contains 127 couples, each element .045" in length and 1.4 mm square in cross section. Thermoelectric material is a quaternary alloy of bismuth, tellurium, selenium and antimony with small amounts of suitable dopants, carefully processed to produce an oriented polycrystalline ingot with superior anisotropic thermoelectric properties. Metallized ceramic plates afford maximum electrical insulation and thermal conduction.

PERFORMANCE AND ELECTRICAL CHARACTERISTICS:

See graphs on reverse side.

OPERATING TEMPERATURE RANGE:

-150°C to +80°C

MECHANICAL CHARACTERISTICS:

Design stresses: 700 lbs. tensile, 700 lbs. compression, 450 lbs. shear. Properly mounted, will normally meet rigid shock and vibration requirements.

