



# THICK FILM DIGITAL attenuators

## SURFACE MOUNT/PLUG IN

The "DAC" Series of digital attenuators are thick film Microwave Integrated Circuits. Attenuator elements and conductor patterns are fired directly onto the alumina substrate. The attenuator pads are calibrated by laser techniques. PIN diodes, blocking capacitors and RF chokes are attached to the ceramic substrate.

### GENERAL SPECIFICATIONS

Characteristic Impedance: 50  $\Omega$  nominal  
 Maximum RF Power: 1.00 mw max.  
 Switching Time: 200 ns maximum  
 RF To Control Isolation: 60 dB maximum  
 Operating Temperature Range: -55° C +125° C  
 Logic Input: See performance table

### MECHANICAL CHARACTERISTICS

The DAC family is available with either a plastic lid, a ceramic lid or as an uncased device. All are suitable for surface mounting and have tabs and pads for external connections. To specify package options, add the following suffix codes:

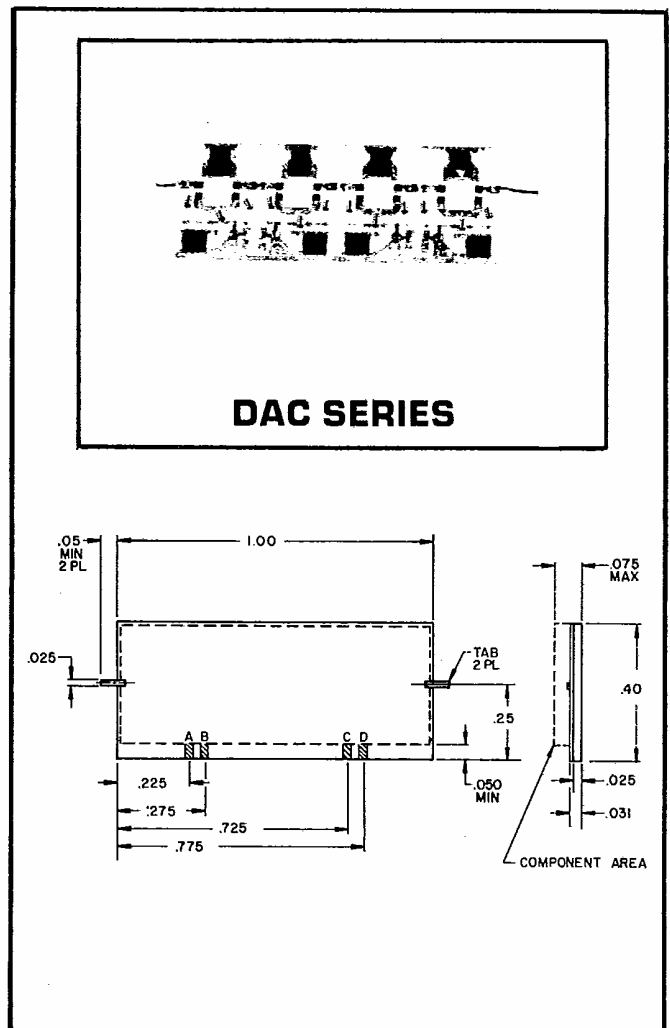
- P = Plastic lid
- C = Ceramic lid

### LOGIC INPUT

Positive logic equals zero attenuation path

Drive Current/per BIT:  $\pm 25$  ma/ $\pm 40$  ma (see electrical performance table)

Maximum Compliance Voltage =  $\pm 5$ V



### ELECTRICAL PERFORMANCE

P/N	Frequency Range	Attenuation Per BIT (dB)	Per BIT Accuracy	Maximum VSWR	Maximum Insertion Loss	Drive Current*
DAC2534-2	.250-3.5 GHz	16, 8, 4, 2	$\pm .75$ dB	1.5:1	3.2 dB	$\pm 40$ ma
DAC2534-1	.250-3.5 GHz	8, 4, 2, 1	$\pm .5$ dB	1.5:1	3.2 dB	$\pm 40$ ma

\* per BIT

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