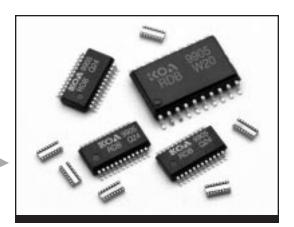


Differential Terminator Network



RDB SERIES

Differential Terminator Network

Differential terminators are used to terminate differential-type SCSI bus lines. Data signals transmitted at high speed and high frequencies generate reflections and a ringing effect, requiring impedance matching along the signal path. A differential terminator can be used to eliminate transmission line effects with a combination of standard resistors matching the characteristic impedance of the transmission line. KOA's silicon based thin film networks provide exceptional stability and offer reliable performance at high frequencies.

Features

- Multiple terminating lines per package
- Thin film on silicon
- Excellent stability over time, temperature and high frequencies
- Cost-effective alternative to discrete components
- Space saving surface mount network

Applications

- Differential SCSI termination
- SCSI host adapter cards and other SCSI devices

Electrical Characteristics

Resistance Range. 10Ω to $1M\Omega$

Resistance Tolerance . . . Standard: $\pm 5\%$, $\pm 2\%$, $\pm 1\%$ T.C.R. Standard: ± 100 ppm/°C

Tracking TCR Typical: ±10 ppm/°C

Operating

Temperature Range -55°C to +125°C

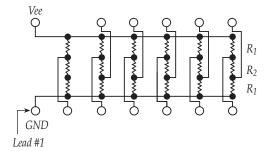
Storage

Temperature Range -65°C to +150°C

Power Rating

@ 70°C 100mW per resistor

Circuit Schematic



Available Pin Configurations

n = Number of Pins
See physical configurations on page D-11
for available pin/package configurations.

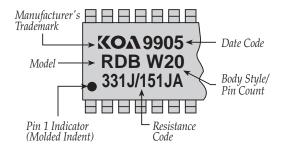
Physical Configurations

Body Style	Resistance Pin Count
Narrow SOIC	. 16, 20
Wide SOIC	. 16, 20
QSOP	. 16, 20, 24
Die Pack *	8 14 16 20 24

Mechanical Characteristics

Item	Material
Substrate	Silicon
Resistor material	TaN/NiCr
Passivation	Glass

Part Marking



^{*} See page J-6 for Die Pack specifications.

Ordering Information

