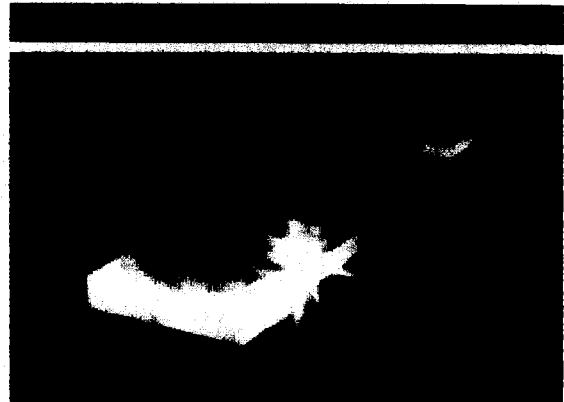


MODEL SERIES BCR

Thick Film

Chip Resistors



OUTSTANDING FEATURES

- **Seven Styles/Six Power Ratings Available** - Including the popular 0402, 0603, 0805 and 1206 versions
- **Tight Dimensional Tolerances** - Ensure reliable high yield board assembly
- **Nickel Barrier Terminations** - For long term solder joint reliability
- **Glass Passivation** - Provides superior environmental protection
- **Ruthenium Oxide Thick Film** - Chosen for accurate and stable resistors
- **Jumper Chip is Standard** - Provides <50 milliohm short

ELECTRICAL

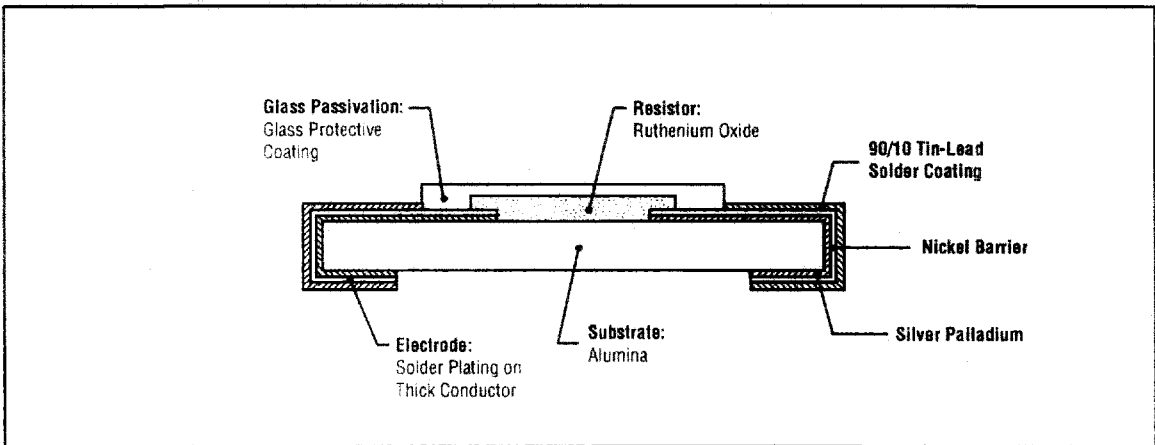
Model	BCR1/32	BCR 1/16	BCR 1/10	BCR 1/8	BCR 1/4	BCR 1/2	BCR 1
Industry Style, Inch(mm)	0402 (1050)	0603 (1608)	0805 (2012)	1206 (3216)	1210 (3225)	2010 (5025)	2512 (6332)
Standard Resistance Tolerances	±1% (F Tolerance), ±5% (J Tolerance)						
Standard Resistance Range	10Ω to 1MegΩ F Tol. -E96 J Tol. - E24		10Ω to 1MegΩ (Plus *0 Ohm* Jumper) F Tol. -E96 J Tol. - E24			10Ω to 1MegΩ (Plus *0 Ohm* Jumper) F Tol. -E96 J Tol. - E24	
Operating Temperature Range	-55°C to +125°C						
Power Rating, Watts *	0.063 at 70°C		0.125 at 70°C	0.250 at 70°C	0.250 at 70°C	0.500 at 70°C	1.0 at 70°C
Rated Current/Peak Current, Amps **	1A / 2A		1.5A / 3A	2A / 4A			
Temperature Coefficient of Resistance	±200ppm/°C (F & J Tol.)			±100ppm/°C (F Tol.) ±200ppm/°C (J Tol.)			
Operating Voltage, Max./ Overload Voltage, Max.	50 / 100 Vdc		150 / 300 Vdc		200 / 400 Vdc		

* Not to exceed Maximum Operating Voltage. Derates to 0 at 125°C.

** Also applies to Jumper Chips
Under 50 milliohm tolerance on resistance is not applied.
Consult factory for tighter tolerances

Specifications subject to change without notice.

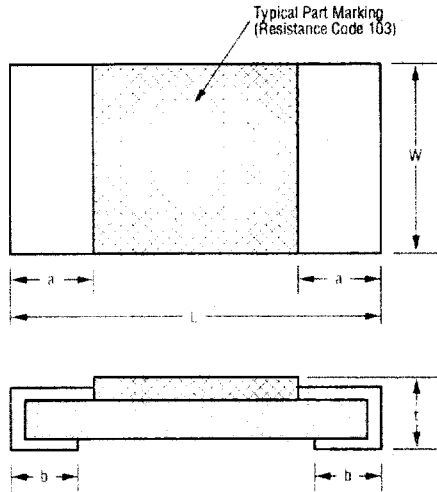
CONSTRUCTION



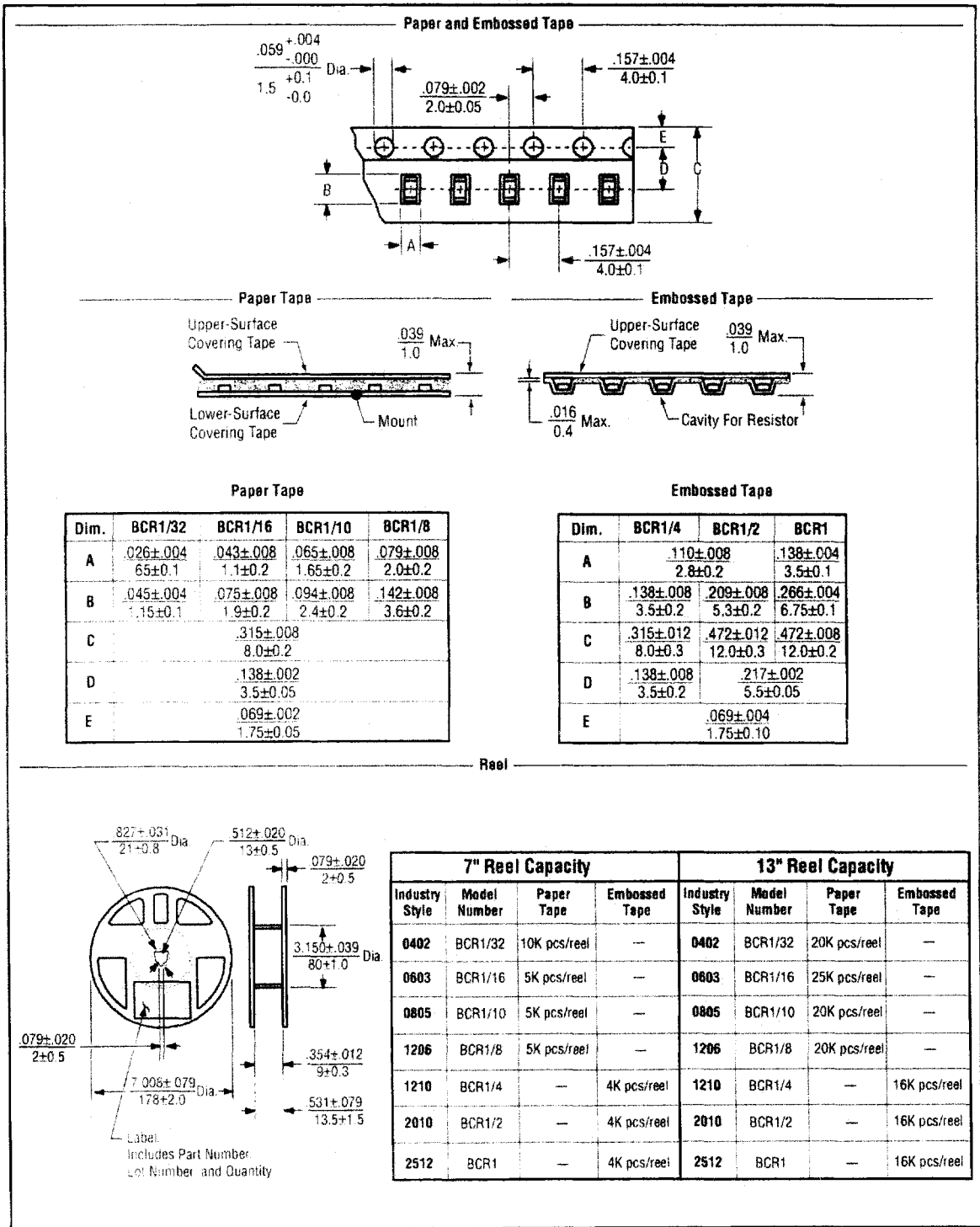
RESISTANCE CODE TABLE

Resistance (Ohm)	J (5%) Tolerance	F (1%) Tolerance
0	JP	-
1-9	All digits significant	-
10-99	Two digits significant, third digit multiplier	All digits significant
100-1Meg	Two digits significant, third digit multiplier	Three digits significant, fourth digit multiplier
Example		
2 Ohm	2R0 "R" denotes decimal place	-
20 Ohm	200	20R0 "R" denotes decimal place
20K Ohm	203	2002

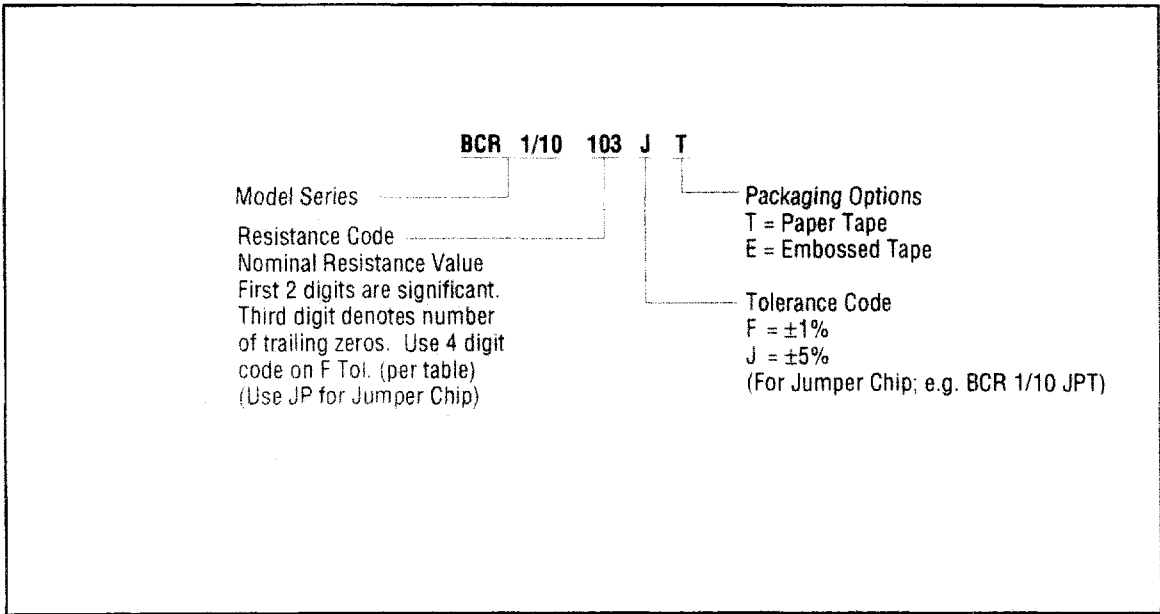
OUTLINE DIMENSIONS (Inch/mm)



Model	L	W	t	a	b
BCR1/32	$\frac{.039 \pm .002}{1.00 \pm .05}$	$\frac{.020^{+.004}}{.50} \frac{-.002}{+.10} \frac{-.05}{-.05}$	$\frac{.014 \pm .002}{.35 \pm .05}$	$\frac{.008 \pm .004}{.20 \pm .10}$	$\frac{.01^{+.002}}{.25} \frac{-.004}{+.05} \frac{-.10}{-.10}$
BCR1/16	$\frac{.063 \pm .006}{1.60 \pm .15}$	$\frac{.031 \pm .006}{.80 \pm .15}$	$\frac{.018 \pm .004}{.45 \pm 0.10}$	$\frac{.012 \pm .008}{.30 \pm .20}$	$\frac{.012 \pm .008}{.30 \pm .20}$
BCR1/10	$\frac{.079 \pm .008}{2.0 \pm .20}$	$\frac{.049 \pm .004}{1.25 \pm .10}$	$\frac{.020 \pm .004}{.50 \pm .10}$	$\frac{.016 \pm .008}{.40 \pm .20}$	$\frac{.016 \pm .008}{.40 \pm .20}$
BCR1/8	$\frac{.126^{+.002}}{3.20} \frac{-.008}{+.05} \frac{-.20}{-.20}$	$\frac{.063^{+.002}}{1.60} \frac{-.006}{+.05} \frac{-.15}{-.15}$	$\frac{.024 \pm .004}{0.60 \pm .10}$	$\frac{.020 \pm .01}{.50 \pm .25}$	$\frac{.020 \pm .012}{.50 \pm .30}$
BCR1/4	$\frac{.126 \pm .008}{3.20 \pm .20}$	$\frac{.098^{+.008}}{2.50} \frac{-.004}{+.20} \frac{-.10}{-.10}$	$\frac{.024 \pm .004}{.60 \pm .10}$	$\frac{.020 \pm .008}{.50 \pm .20}$	$\frac{.020 \pm .008}{.50 \pm .20}$
BCR1/2	$\frac{.197 \pm .008}{5.0 \pm .20}$	$\frac{.098 \pm .006}{2.5 \pm .15}$	$\frac{.024 \pm .004}{.60 \pm .10}$	$\frac{.024 \pm .004}{.60 \pm .20}$	$\frac{.020 \pm .012}{.50 \pm .30}$
BCR1	$\frac{.248 \pm .008}{6.30 \pm .20}$	$\frac{.126 \pm .008}{3.20 \pm .20}$	$\frac{.023 \pm .004}{.60 \pm .10}$	$\frac{.028 \pm .008}{.70 \pm .20}$	$\frac{.028 \pm .008}{.70 \pm .20}$



ORDERING INFORMATION



5