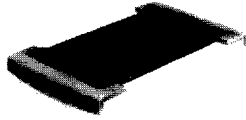
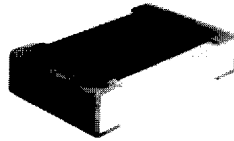


Chip Resistors



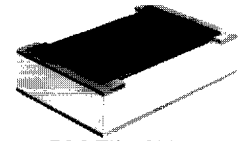
RK - Quarter Wrap



RP-Wrap Around

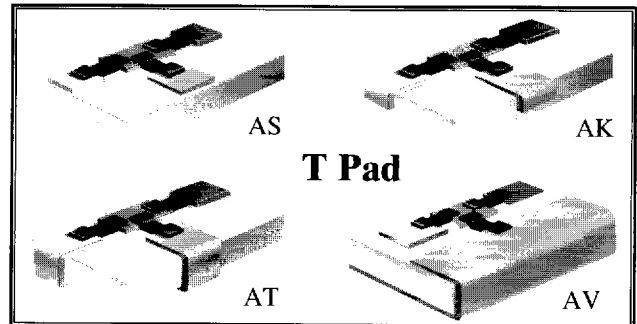
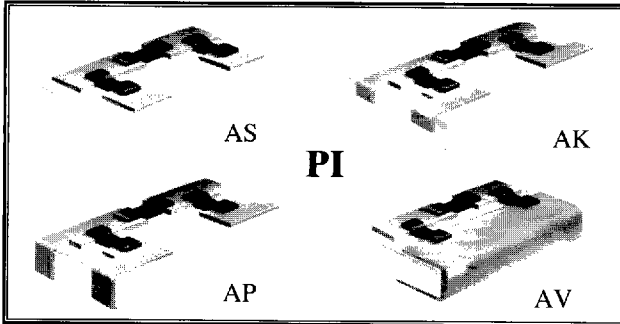


RS-Flip Chip



RM-Flip Chip
With Backpad

Microwave Attenuators



Microwave Terminations



TV-Termination



TW-Cube
Termination

R P 0805 C B - 1001 J N - 91

- Device Type**
- A - Attenuator
 - J - Jumper
 - N - Network
 - Q - QPL Resistor
 - R - Resistor
 - T - Termination
 - X - Special

- Conductor Configuration**
- D - Double Sided
 - J - Full Wrap-3 Side No Backpad
 - K - 1/4 Wrap
 - L - Assembly
 - M - Back Metallization
 - P - Wrap Around
 - S - Flip Chip
 - T - 3 Sided Wrap
 - V - Half Wrap
 - W - Cube
 - X - Special
 - Z - 3 Sided 1/4 Wrap

Size
0805 = .080" x .050"

- Termination Material**
- A - Platinum Gold
 - B - Palladium Silver
 - C - Silver
 - D - Platinum Silver
 - E - Gold I/O with Palladium Silver Ground
 - F - Gold I/O with Platinum Gold Ground
 - G - Gold
 - H - Gold over Platinum Gold I/O Pads with Platinum Gold Ground
 - J - Gold over Platinum Gold
 - K - Platinum Palladium Silver
 - X - Special

- Termination Finish**
- A - No Finish
 - B - Tin/Lead over Nickel
 - C - Tin/Lead over Nickel on I/O, Nickel only on Ground
 - G - Gold over Nickel
 - I - Lead Indium Solder Dip
 - N - Nickel
 - P - Tin/Lead Plate 60/40
 - S - Tin/Lead
 - X - Special

Value in Ohms

1.1	.....	1R10
1.0	.....	1R00
10	.....	10R0
100	.....	1000
1,000	.....	1001
10,000	.....	1002
1,000,000 (1 Meg.)	.....	1004
150,000,000,000	.....	1509

Value in Decibels

1	.....	.0100
2.5	.....	.0250
12	.....	.1200
18.5	.....	.1850

- Substrate***
- 90 - .010" Alumina
 - 91 - .015" Alumina
 - 92 - .020" Alumina
 - 93 - .025" Alumina
 - 94 - .040" Alumina
 - 95 - .010" BeO
 - 96 - .015" BeO
 - 97 - .020" BeO
 - 98 - .025" BeO
 - 99 - .040" BeO
 - 9A - .030" Alumina
 - 9B - .030" BeO
 - 9C - .035" Alumina
 - 9D - .035" BeO
 - 9E - .060" Alumina
 - 9F - .060" BeO
 - 9Q - .015" Aluminum Nitride
 - 9T - .040" Aluminum Nitride
 - 9X - Special
- * All Resistive Elements Passivated*

- Inspection**
- C - Customer Print
 - N - Normal
 - T - Special

- Tolerance**
- F - 1%
 - G - 2%
 - J - 5%
 - K - 10%
 - L - 20%
 - X - Special

Available Sizes for Thick Film Chips

Chip Size*	Microwave Attenuators and Terminations								Chip Resistors				
	AK	AM	AP	AS	AT	AV	AZ	TV	TW	RK	RP	RS	RM
0101									.			.	.
0201												.	.
0202												.	.
0302											.	.	.
0303								
0402											.	.	.
0405
0502											.	.	.
0503											.	.	.
0504											.	.	.
0505											.	.	.
0604			
0605											.	.	.
0610											.	.	.
0702											.	.	.
0706		
0715											.	.	.
0802											.	.	.
0805											.	.	.
0904
1002											.	.	.
1004			
1005	
1007
1008											.	.	.
1010								
1202											.	.	.
1206											.	.	.
1211											.	.	.
1216		
1505											.	.	.
1612
1910											.	.	.
2010											.	.	.
2207											.	.	.
2335											.	.	.
2510											.	.	.
2512											.	.	.
2525					
3522		
3725											.	.	.
3737											.	.	.

*0502 = .050" x .025" 0610 = .060" x .100" 1206 = .120" x .060" 2207 = .220" x .070" *0502 = .050" x .025"

Thick Film Chip Values and Material Selection

Resistor values range from .1 ohm to 150 gigohm. Attenuator values range from .25dB to 32dB. All chips are available in standard 96% Alumina or in BeO to handle your hi power requirements. Detailed drawings are available for each chip style. Please call the factory for any of your special product needs.

Engineering Kits

Engineering kits are available for prototyping or pilot runs. Standard kits contain chip resistors in tolerances of 1, 2, 5 or 10% tolerance - with values from 10 ohms to 27 megohms. Custom kits are also available. *See Back Cover.*