

# **State of the Art, Inc.** **High Power Solderable Chip Resistors** **Thick Film on BeO**



## SIZES and RATINGS

SIZE CODE	LENGTH (inches)	WIDTH (inches)	THICKNESS (inches)	MAXIMUM VOLTAGE	MAXIMUM POWER*	THERMAL RESISTANCE
S0705	.075"	.050"	.025"	50	4 Watt	10.70° C / Watt
S1206	.125"	.065"	.025"	100	14 Watt	3.50° C / Watt
S1010	.100"	.100"	.040"	75	14 Watt	3.44° C / Watt
S2010	.200"	.100"	.040"	150	30 Watt	1.64° C / Watt
S2512	.250"	.125"	.040"	200	50 Watt	1.00° C / Watt
S2525	.250"	.250"	.040"	200	100 Watt	0.40° C / Watt
S3838	.375"	.375"	.040"	250	200 Watt	0.23° C / Watt

\* When properly mounted on a heat sink maintained at 100° C with a maximum film temperature of 150° C.

## PART NUMBERING

**S2010 DBX 500 J 20**

TCR  
10:100ppm 20: 200ppm 30: 300ppm

### TOLERANCES

F:1% G: 2% J: 5% K:10% M: 20%

### RESISTANCE VALUE

Three or four digits are used with all leading digits significant. Four digits are used for 1% tolerance, otherwise three digits are used. The last digit specifies the number of zeros to add. The letter "R" is used to represent the decimal for fractional ohmic values.

### TERMINATION STYLE

DBX (Metalized Bottom) EBX (Single wrap around)

SIZE CODE - SEE TABLE ABOVE.

## TOLERANCE & RANGE

Resistance Range: 1 to 1,000 Ohm

Tolerances: 1, 2, 5, 10, 20%

## PACKAGING

Individual lot quantities are packaged in conductive waffle packs. Tape & Reel Packaging is an available option.

## OPTIONS

TERMINATIONS: Epoxy bondable, Wire bondable, & Surface Mount double wrap around.

TESTING: Group A & B per MIL-PRF-55342, 100% Visual, or customer specified testing.

SIZES: Other sizes can be manufactured with a NRE charge and higher minimum lines.

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**Where Quality Isn't a Goal...It's Our Tradition**

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