



OMEGA PRODUCTS PRIVATE LIMITED

Unit No.50,SDF II, SEEPZ (SEZ) Andheri (East), Mumbai 400 096

Surface mount thick film Resistor - OSK Series [Established Reliability Screened as per MIL-PRF-55342]

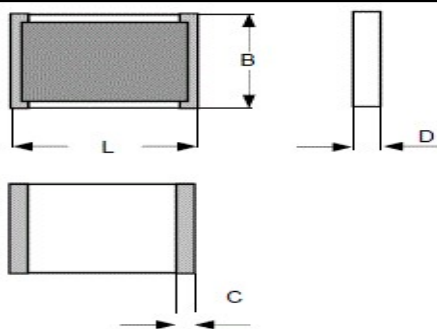
DESCRIPTION

Silver palladium conductive paste is screen printed for termination on front and back side of 96% alumina ceramic substrates. Ruthenium oxide based resistive paste is screen printed to achieve resistance value. Laser machine is used to achieve the highly precise resistance tolerance by trimming. Wraparound termination is applied by roller printing. Resistors are screen printed with epoxy for electrical, mechanical and climatic protection. Terminations are nickle and tin plated.

FEATURES

Low VCR	Tighter Tolerance
Wide Range of Resistors	High Stability

SPECIFICATION



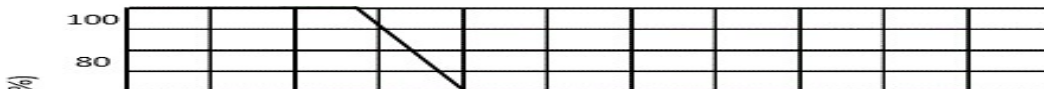
Type	Watt	L	B	D	C	Max Working Volt	Resistance Range
OSK 0402	0.05 W	0.99±0.08	0.51±0.08	0.33±0.08	0.25 ±0.13	30	10 ohm to 1M
OSK 0505	0.125 W	1.40 ±0.13	1.27±0.13	0.51±0.13	0.38 ±0.13	40	10 ohm to 1M
OSK 0603	0.10 W	1.60 ±0.13	0.81±0.13	0.46±0.13	0.38 ±0.13	50	10 ohm to 1M
OSK 0705	0.15 W	2.03 ±0.15	1.27±0.13	0.38 / 0.84	0.38 ±0.13	50	5.6 ohm to 1M
OSK 1206	0.25 W	3.20 ±0.20	1.60 ±0.13	0.38 / 0.84	0.45 ±0.18	100	10 ohm to 1M
OSK 2512	1.0 W	6.58 +0.23/-0.38	3.51±0.13	0.51±0.13	0.51±0.13	200	0.1 ohm to 1M

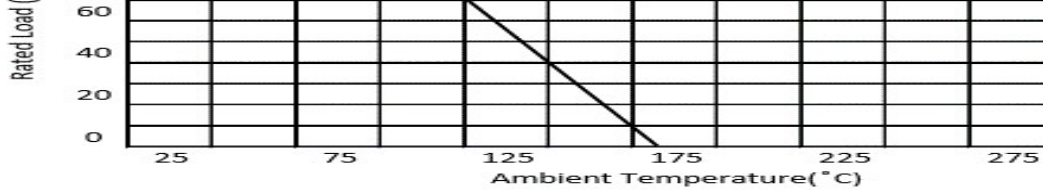
PERFORMANCE CHARACTERISTIC

Requirement shall not exceed

Tolerance	0.5%, ±1%, 2%, 5%, 10%
Operating Temperature Range	-65 to +150°C
Load Life (Rated power for 1000 hrs 1.5/0.5 Hr On/Off)	± 0.5% +0.005 Ohms
Short term overload	± 0.25% +0.005 Ohms
Temperature Coefficient Resistance (TCR)	± 100 ppm/°C
Moisture Resistance (Asper MIL 202F method 106)	± 0.5% +0.005 Ohms
Resistanxce to Soldering Heat	± 0.25% +0.005 Ohms
High Temperature Exposure	± 0.5% +0.005 Ohms
Low tempearature operation	± 0.25% +0.005 Ohms
Temperature Cycling	± 0.5% +0.005 Ohms
Mounting Integrity	± 0.25% +0.005 Ohms
Power Conditioning	± 0.5% +0.005 Ohms
Solderability	> 95% Coverage
Resistance to solvents	No deterioration.
Derating	

Derating Curve :





Ordering Info - Part Number : OSK12061E00DKL

OSK - Omega series for Thick film chip resistors
 1206 - For 0.25W, 0705 - 0.15W, 0402 - 0.05W, 0603 - 0.1W, 0505 - 0.125W, 2512 - 1W
 1E00 - For Resistance value Refer below table
 D - For 0.5% Tolerance, F - 1%, H - 2%, J - 5% & K - 10%
 K - For 100 ppm/°C, L - 200 ppm/°C, M - 300 ppm/°C
 L - For Launch Vehicle application

TOLERANCE					MULTIPLIER	VALUE RANGE (Ω)
± 0.5 %	± 1 %	± 2 %	± 5 %	± 10 %		
W	D	G	J	M	1	1 to 9xx
Y	E	H	K	N	1000	1K to 9xxK
Z	F	T	L	P	1 000 000	1M to 22M

** Specification is subject to change without notice.*