

Content Data IMS TPI-0805 Low Ohm Series Resistors
Lead Free (PbF) Terminations

Construction	Material	Substance
Substrate	Ceramic	Al ₂ O ₃
Resistor	Nichrome alloy	NiCr
Protective Coating	Epoxy	Resin overcoat epoxy
Inner Termination	Copper plating	Cu
2 nd Termination	Plating (Ni)	Ni
3 rd Termination	Plating (Sn)	Sn

Substance			.022 5% to .068Ω 5%	.082 5% to 8.2Ω 1%
Name	Symbol	CAS No.	weight %	weight %
Nickel	Ni	7440-02-0	7.69	5.15
Copper	Cu	7440-50-8	12.29	9.64
Tin	Sn	7440-31-5	2.05	2.12
Nichrome	NiCr	12605-70-8	0.03	0.01
Alumina	Al ₂ O ₃	1344-28-1	75.14	81.45
Epoxy			2.62	1.53
Copper Nickel	CuNi		0.18	0.10
	reference weight (mg)		3.9	3.9