1/2 Watt to 5 Watt

SWM Series

Jaro Series SWM wirewound resistors are designed for applications that are too demanding for conventional chip resistors. Advantages include superior surge capability, improved temperature stability, negligible noise, and exceptional environmental perfomance. The all-welded internal construction combined with highest grade materials ensures utmost reliability.



FEATURES

Widest selection in the industry!

Resistance range: 0.005W to 100KW

Excellent T.C. stability (available to ±5ppm/°C)

Standard tolerance: ±1% or ±5% (available to 0.01%)

Inherent wirewound performance

Quick delivery available

OPTIONS



Numerous design modifications are available (special marking, matched sets, etc). Consult factory for application assistance.

TYPICAL PERFORMANCE CHARACTERISTICS

Load Life (1000 hours)	±0. 5%			
Moisture Resistance	±0.2%			
Temperature Cycling	±0. 2%			
Short Time Overload	±0. 2%			
Resistance to Solder Heat (260°C, 5 sec)	±0. 1%			
Temperature Coefficient	Maximum	Optional		
R005-R009	600ppm	200, 300		
R010-R049	300ppm	100, 200		
R050-R099	200ppm	50, 100		
R100-R990	90ppm	20,30,50		
1R00-9R90	50ppm	10,20,30		
10R0 and above	20ppm	5, 10		
Dielectric Strength	500V Min. (1K	(V avail.)		
Solderability (within .032" from PCB surface)	95% coverage	•		
Operating Temperature Range -55°C t		°C		

SPECIFICATIONS

Jaro Type	Wattage	Voltage	Resistance	DIMENSIONS Inch [mm]							
	@ 25°C	Rating**	Range	Α	В	С	D	E	F	G	Н
SWM1/2*	0.5W	30V	0.01Ω - 2K	.200±.02	.096±.015	.120±.01	.025 Min.	.045±.015	.080	.100	.100
				[5.1±.5]	[2.44±.38]	[3.18±.25]	[.63]	[1.14±.38]	[2.0]	[2.5]	[2.5]
SWM1	1W	40V	0.005Ω -10K	.260±.02	.110±.015	.150±.015	.032 Min.	.060±.015	.090	.125	.150
				[6.6±.5]	[2.79±.38]	[3.81±.38]	[0.8]	[1.5±.38]	[2.3]	[3.2]	[3.8]
SWM2	2W	80V	0.005Ω -25K	.445±.032	.180±.02	.225±.015	.060 Min.	.080±.015	.120	.200	.200
				[11.3±.81]	[4.57±.5]	[5.71±.38]	[1.50]	[2.0±.38]	[3.0]	[5.0]	[5.0]
SWM3	3W	140V	0.005Ω -50K	.811±.018	.275±.015	.273±.015	.085±.02	.110±.02	.200	.200	.600
				[20.6±.46]	[6.99±.38]	[6.93±.38]	[2.16±.5]	[2.79±.5]	[5.0]	[5.0]	[15.2]
SWM5	5W	210V	0.005Ω -100K	.811±.018	.275±.015	.273±.015	.085±.02	.110±.02	.200	.250	.600
				[20.6±.46]	[6.99±.38]	[6.93±.38]	[2.16±.5]	[2.79±.5]	[5.0]	[6.4]	[15.2]

*Info on SWM1/2 is preliminary. Consult factory for availability.

Wirewound Resistors

**Voltage determined by E = \sqrt{PR} , E not to exceed maximum voltage rating. Increased ratings available. Multiply by 0.7 for Opt. 'X'

DERATING CURVE

Resistors may be operated up to full rated power with consideration of mounting density, pad geometery, PCB material, and ambient temperature.



P/N DESIGNATION

F Т SWM2 1001 Packaging: 4-Digit Resis. Tolerance Code: Jaro Type Options: X, T, P, FF, F, ER Optional Temp. Coefficient-Code: 3 signif. digits & B=Bulk K=10% (leave blank for standard) leave blank for standard multiplier J=5% T=Tape 5=5ppm R010=0.01Ω G=2% 10=10ppm 1R00=1Ω F=1% 100=100ppm 1000=100Ω D=0.5% etc. C=0.25% 1001=1k Ω B=0.1% A=0.05% Q=0.02% T=0.01%