

8900 Series

MIL-PRF-83401 Qualification Data

Specification	Size	Schematic	Resistance Range (Ω)	Absolute Tolerance (%)	Characteristic
MIL-PRF-83401/03	14 Din		20 - 121K	F, G, J	К, М
MIL-PRF-83401/15	14-111	А, Б	100 - 100K	B, D, F, G, J	Н, К, М
MIL-PRF-83401/10	16-Pin	А, В	100 - 100K	B, D, F, G, J	Н, К, М

Package Specification Data (MIL and Commercial)

Schematic	Package Power (mW)		Power Derating	Voltage Rating	Temperature Range	Substrate	Lead Finish	Noise
Concinatio	14-pin 16-pin							
A	350	400	100% from 0°C to 70°C derated linearly to 0%	√PxR not to exceed 50V	-65°C to +125°C	99.6% Alumina	Gold Plate (60/40 Sn/Pb available)	<-30dB
В	325	375	at 125°C					

Schematic Data



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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TaNFilm® Precision **Flat Pack Networks**

8900 Series



Physical Data



Environmental Data

	MIL-PRF-83401 Limits (∆R%)				TaNFilm [®] Test Data (∆R%)		
Test per MIL-PRF-63401	м	к	н	v	Мах	Typical	
Thermal Shock and Power Conditioning	0.7	0.7	0.5	0.25	0.1	0.02	
Low Temperature Operation	0.5	0.25	0.1	0.1	0.1	0.01	
Short Term Overload	0.5	0.25	0.1	0.1	0.05	0.01	
Terminal Strength	0.25	0.25	0.25	0.1	0.1	0.01	
Resistance to Solder Heat	0.25	0.25	0.1	0.2	0.1	0.02	
Moisture Resistance	0.5	0.5	0.4	0.25	0.1	0.03	
Shock	0.25	0.25	0.25	0.25	0.1	0.03	
Vibration	0.25	0.25	0.25	0.1	0.1	0.03	
Life	2.0	0.5	0.5	0.1	0.1	0.03	
High Temperature Exposure	1.0	0.5	0.2	0.1	0.1	0.03	
Low Temperature Storage	0.5	0.25	0.1	0.1	0.1	0.02	
25°C Double Load	2.0	0.5	0.5	0.1	0.05	0.03	

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TaNFilm[®] Precision Flat Pack Networks

8900 Series



Commercial and MIL-Screened (Non-QPL) Ordering Data

Prefix
Model-
8987 = 14-pin Flat Pack, schematic B, gold terminations 8987SD = 14-pin Flat Pack, schematic B, 60/40 Sn/Pb terminations 8987HR = 14-pin HI-REL Flat Pack, schematic A, gold terminations 8989 = 14-pin Flat Pack, schematic A, gold terminations 8989SD = 14-pin Flat Pack, schematic A, 60/40 Sn/Pb terminations 8989HR = 14-pin Flat Pack, schematic A, gold terminations
8998 = 16-pin Flat Pack, schematic B, gold terminations 8998BD = 16-pin Flat Pack, schematic B, 60/40 Sn/Pb terminations 8998HR = 16-pin Flat Pack, schematic B, gold terminations 8999 = 16-pin Flat Pack, schematic A, gold terminations 8999SD = 16-pin Flat Pack, schematic A, 60/40 Sn/Pb terminations 8999HR = 16-pin HI-REL Flat Pack, schematic A, gold terminations
Absolute TCR·
$\begin{array}{l} \mbox{Commercial Screening} \\ 01 = \pm 100 ppm/^{\circ}C; \ 02 = \pm 50 ppm/^{\circ}C; \ 03 = \pm 25 ppm/^{\circ}C; \ 11 = \pm 15 ppm/^{\circ}C \end{array}$
MIL-PRF-83401 Group A Screening 04 = ±300ppm/°C Characteristic M; 05 = ±100ppm/°C Characteristic K 06 = ±50ppm/°C Characteristic H; 07 = ±25ppm/°C Characteristic H
Resistance
Standard 4-digit MIL resistance code Example: 1001 = 1000Ω; 50R0=50Ω
Abaoluta Toloranoo
ADSULICE INICIALIZE
$J = \pm 5\%$; $G = \pm 2\%$; $F = \pm 1.0\%$; $D = \pm 0.5\%$; $B = \pm 0.1\%$
Optional Ratio Tolerance to R,

 $F = \pm 1.0\%$; $D = \pm 0.5\%$; $C = \pm 0.25\%$; $B = \pm 0.1\%$; $A = \pm 0.05\%$; $Q = \pm 0.02\%$; $T = \pm 0.01\%$

Notes

HI-REL models include a precap inspection and thermo-compression bonded leads. TCR codes 01, 02, 03, and 11 are not available on HI-REL models. Custom schematics and screening available. Contact factory for ordering information.

MIL-PRF-83401 Ordering Data

Prefix M83401 03 K 1001 F A
Specification Sheet 03 = 14-pin Flat Pack = RZ030 10 = 16-pin Flat Pack = RZ100 15 = 14-pin HI REL Flat Pack = RZ150
Characteristic ••••••••••••••••••••••••••••••••••••
Resistance · · · · · · · · · · · · · · · · · · ·
Standard 4-digit MIL resistance code Example: 1001 = 1000Ω; 50R0=50Ω
Absolute Tolerance
$J = \pm 5\%$; $G = \pm 2\%$; $F = \pm 1.0\%$; $D = \pm 0.5\%$; $B = \pm 0.1\%$
Schematic • • • • • • • • • • • • • • • • • • •
A = Isolated; B = Bussed Schematic
Standard lead termination is gold plate. Contact factory for optional 60/40 Sn/Pb hot solder dip finish.

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www.ttelectronics.com/resistors

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