MODEL NQS SERIES .025" Pitch DIP Precision Thin Film Surface Mount Resistor Networks



FEATURES/BENEFITS

- Unique passivation coating eliminates moisture concerns and allows for use in applications traditionally restricted to tantalum nitride
- Outperforms other thin film resistor materials providing excellent tolerances, ratio matching, temperature coefficient, and temperature tracking
- Improved performance over silicon substrates in stray capacitance, frequency response and stability

ELECTRICAL

Operating Temperature Range	-55°C to +125°C
Resistance Voltco	≈0
Interlead Capacitance	<2pF
Operating Voltage, Maximum	100 Vdc or √PR
Insulation Resistance	≥10,000 Megohms
Noise, Maximum (MIL-STD-202, Method 308)	-40dB

ENVIRONMENTAL

∆R 0.25%
ΔR 0.10%
ΔR 0.10%
ΔR 0.10%
ΔR 0.20%
ΔR 0.25%
ΔR 0.25%
ΔR 0.10%
ΔR 0.10%
ΔR 0.10%
100V for 1 minute
215°C for 3 minutes
per MIL-STD-202, Method 215
per MIL-STD-202, Method 208
UL-94V-0 Rated
-55°C to +125°C

Specifications subject to change without notice.



MECHANICAL

Lead Plating	85/15 Tin Lead
Lead Material	Copper Alloy
Lead Configuration	Gull Wing
Lead Coplanarity	0.004" (0.102mm)
Substrate Material	Alumina
Resistor Material	Nichrome
Body Material	Molded Epoxy

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Accuracy Code	В	D	F	G	J
Absolute Resistance Tolerances, at 25°C	0.1%	0.5%	1.0%	2%	5%
Ratio Matching (Matched to R1)	0.1%	0.1%	0.5%	1%	1%
Temperature Coefficient of Resistance			±25ppm/°C (Q)		
			±50ppm/°C (P)		
			±100ppm/°C		
Temperature Coefficient of Resistance, Trac	king		±5ppm/°C		

STANDARD RESISTANCE VALUES, OHMS

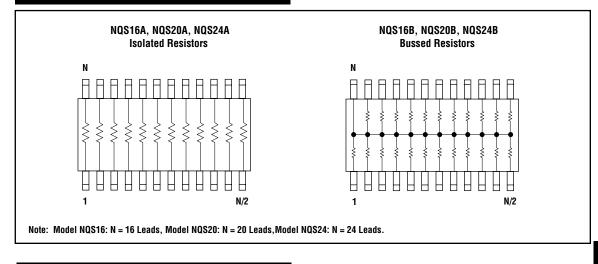
NQS	16A	NQS	20A	NQS	20B	NQS	S24A
Ohms	Code	Ohms	Code	Ohms	Code	Ohms	Code
1K	1001	3K	3001	10K	1002	3K	3001
10K	1002	267K	2673				
34K	3402						
47K	4702						
100K	1003						

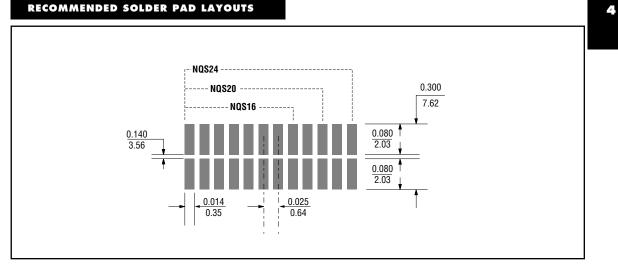
POWER DISSIPATION, WATTS AT 70°C

Model	Package	Resistor	
NQS16	0.8	0.1	
NQS20	1.0	0.1	
NQS24	1.0	0.1	



SCHEMATICS

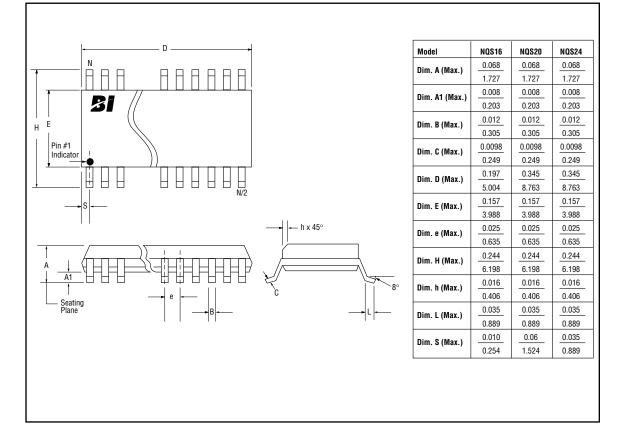






Model NQS Series

OUTLINE DIMENSIONS (Inch/mm)



PACKAGING

Standard:	Magazine				
	All units orie	nted with le	ad #1 to	o the same side.	
	Magazine:	Capacity	=	100 Units (1)	
				50 Units (20	and 24 (early)
•				·	and 24 Leads)
Option:	Embossed Tap	e & Reel (p	er EIA 4	·	and 24 Leads)
Option:	Embossed Tap	be & Reel (p Diameter	er EIA 4	·	13" Reel



ORDERING INFORMATION

