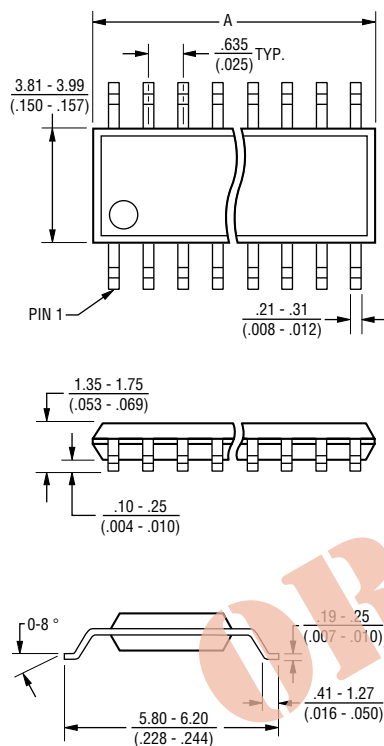


Thin Film on Silicon 2QSP / 2NBS -XX2 Bussed Resistors

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Mechanical Characteristics

QSOP Package Dimensions

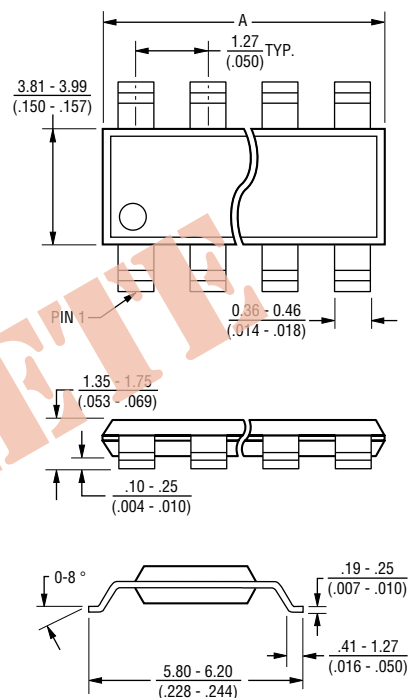


Model	A
2QSP16	4.80 - 4.98 (.189 - .196)
2QSP20	8.56 - 8.74 (.337 - .344)
2QSP24	8.56 - 8.74 (.337 - .344)
2QSP28	9.80 - 9.98 (.386 - .393)

Governing dimensions are in mm. Dimensions in parentheses are in inches and are approximate.

JEDEC Reference Number MO-137.

Narrow-Body SOIC Package Dimensions



Model	A
2NBS08	4.80 - 4.98 (.189 - .196)
2NBS14	8.56 - 8.74 (.337 - .344)
2NBS16	9.80 - 9.98 (.386 - .393)

Governing dimensions are in mm. Dimensions in parentheses are in inches and are approximate.

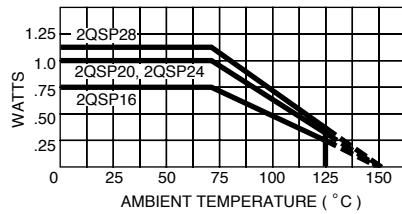
JEDEC Reference Number MS-012.

Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

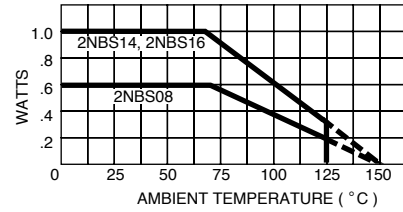
Thin Film on Silicon 2QSP / 2NBS -XX2 Bussed Resistors

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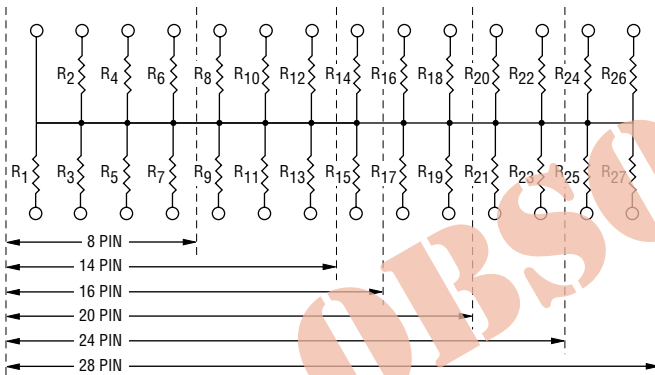
QSOP Package Power Temperature Derating Curve



Narrow-Body SOIC Package Power Temperature Derating Curve



Schematic

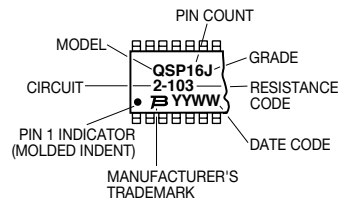


Standard Resistance Values

Resistance (ohms)	Resistance Code
100	101
120	121
220	221
270	271
330	331
390	391
470	471
510	511
680	681
1 K	102
1.5 K	152
2 K	202
2.2 K	222
2.7 K	272
3.3 K	332
4.7 K	472
5.1 K	512
10 K	103
20 K	203
27 K	273
47 K	473
51 K	513
75 K	753
82 K	823
100 K	104

Typical Part Marking

Represents total content. Layout may vary.

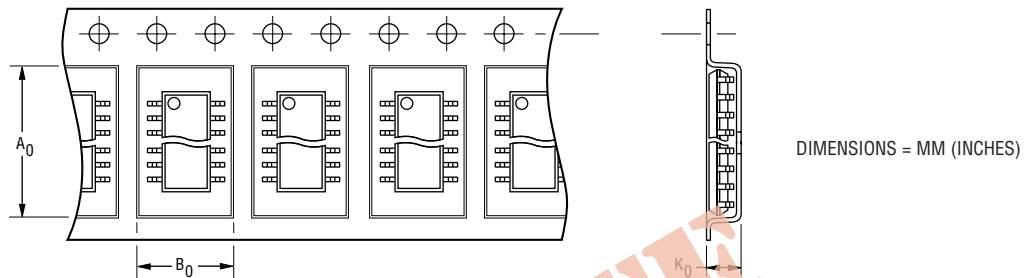


Thin Film on Silicon 2QSP / 2NBS -XX2 Bussed Resistors

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Dispensing

For large quantities, the product will be dispensed in Tape and Reel (see diagram below).



Package	A ₀	B ₀	K ₀	Width	Pitch	No. of Pieces per 13 reel	No. of Pieces per tube
QSOP							
16 Pin	6.4 (0.252)	5.2 (0.205)	2.1 (0.083)	12 (0.472)	8 (0.315)	3,500	98
20, 24 Pin	6.5 (0.256)	9.0 (0.354)	2.1 (0.083)	16 (0.630)	8 (0.315)	3,500	56
28 Pin	6.5 (0.256)	10.3 (0.406)	2.1 (0.083)	16 (0.630)	8 (0.315)	3,500	49
NBSOIC							
8 Pin	6.4 (0.252)	9.0 (0.354)	2.1 (0.083)	12 (0.472)	8 (0.315)	3,500	98
14 Pin	6.5 (0.256)	9.0 (0.354)	2.1 (0.083)	16 (0.630)	8 (0.315)	3,500	56
16 Pin	6.5 (0.256)	9.0 (0.354)	2.1 (0.083)	16 (0.630)	8 (0.315)	3,500	49

How To Order

2 QSP 20 - T J 2 - 472 LF

Product Class _____
Thin-Film-on-Silicon

Standard Package Style _____
QSP = QSOP
NBS = Narrow-Body SOIC

Pin Count _____
QSP = 16, 20, 24, 28
NBS = 8, 14, 16

Dispensing _____
R = Reel
T = Tube

Standard Grade _____
Tolerance
J = ±5 %
G = ±2 %
F = ±1 %

Circuit _____
2 = Bussed

Resistance Value Code _____
1st two digits are significant,
3rd digit = number of zeros to follow to give resistance value in ohms.

Terminations _____
LF = 100 % Sn (lead free)



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