

4

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LOC

DIST

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	H	REV PER ECO-07-003704	21FEB07	KW	DB
	H1	REVISED PER ECO-10-000443	15JAN10	KK	AEG

YES

71.12[2.800]

28

5-643813-8

YES

68.58[2.700]

27

5-643813-7

YES

66.04[2.600]

26

5-643813-6

YES

63.50[2.500]

25

5-643813-5

YES

60.96[2.400]

24

5-643813-4

YES

58.42[2.300]

23

5-643813-3

YES

55.88[2.200]

22

5-643813-2

YES

53.34[2.100]

21

5-643813-1

YES

50.80[2.000]

20

5-643813-0

YES

48.26[1.900]

19

4-643813-9

YES

45.72[1.800]

18

4-643813-8

YES

43.18[1.700]

17

4-643813-7

YES

40.64[1.600]

16

4-643813-6

YES

38.10[1.500]

15

4-643813-5

YES

35.56[1.400]

14

4-643813-4

YES

33.02[1.300]

13

4-643813-3

YES

30.48[1.200]

12

4-643813-2

YES

27.94[1.100]

11

4-643813-1

YES

25.40[1.000]

10

4-643813-0

YES

22.86[.900]

9

3-643813-9

YES

20.32[.800]

8

3-643813-8

YES

17.78[.700]

7

3-643813-7

YES

15.24[.600]

6

3-643813-6

YES

12.70[.500]

5

3-643813-5

YES

10.16[.400]

4

3-643813-4

YES

7.62[.300]

3

3-643813-3

YES

5.08[.200]

2

3-643813-2

NO

71.12[2.800]

28

2-643813-8

SUPERSEDED BY 5-643813-8

NO

68.58[2.700]

27

2-643813-7

SUPERSEDED BY 5-643813-7

NO

66.04[2.600]

26

2-643813-6

NO

63.50[2.500]

25

2-643813-5

SUPERSEDED BY 5-643813-5

NO

60.96[2.400]

24

2-643813-4

NO

58.42[2.300]

23

2-643813-3

SUPERSEDED BY 5-643813-3

NO

55.88[2.200]

22

2-643813-2

SUPERSEDED BY 5-643813-2

NO

53.34[2.100]

21

2-643813-1

SUPERSEDED BY 5-643813-1

NO

50.80[2.000]

20

2-643813-0

NO

48.26[1.900]

19

1-643813-9

SUPERSEDED BY 4-643813-9

NO

45.72[1.800]

18

1-643813-8

NO

43.18[1.700]

17

1-643813-7

NO

40.64[1.600]

16

1-643813-6

NO

38.10[1.500]

15

1-643813-5

NO

35.56[1.400]

14

1-643813-4

NO

33.02[1.300]

13

1-643813-3

NO

30.48[1.200]

12

1-643813-2

NO

27.94[1.100]

11

1-643813-1

NO

25.40[1.000]

10

1-643813-0

NO

22.86[.900]

9

643813-9

NO

20.32[.800]

8

643813-8

NO

17.78[.700]

7

643813-7

NO

15.24[.600]

6

643813-6

NO

12.70[.500]

5

643813-5

NO

10.16[.400]

4

643813-4

NO

7.62[.300]

3

643813-3

NO

5.08[.200]

2

643813-2

LEADFREE

DIM A

NO. OF CIRCUITS

PART NO.

AMP

1 2 3

6.99
[.275]

6.22
[.245]

6.99
[.275]

0.48±0.08
[.019±.003]

1.91
[.075]

2.54±0.05
[.100±.002]

1.42±0.10
[.056±.004]

4.67±0.08
[.184±.003]

3.66±0.08
[.144±.003]

3.21
[.520]

1

2

3

4

A

+0.38
-0.25

A
+.015
-.010

.94±0.08
[.037±.003]
TYP

2.54
[.100]
TYP

1 MATERIAL: CONNECTOR - NYLON UL94V-2 (RED).
CONTACTS - 0.30[.012] THICK COPPER ALLOY
BRIGHT TIN-LEAD .00203[.000080] MIN THICKNESS
FOR 643813-2 THRU 2-643813-8.
MATTE WHISKER MITIGATED TIN .00203[.000080] MIN THICKNESS OVER
NICKEL UNDERPLATE FOR 3-643813-2 THRU 5-643813-8.

2. CONTACTS ACCEPT 22 AWG WIRE WITH 1.52[.060] MAX
INSULATION DIAMETER.

3. CONTACTS MUST ACCEPT 0.64±0.03[.025]
POST AND REMAIN LOCKED IN POSITION.

4 IDENTIFICATION NUMBER FOR LAST CIRCUIT MAY
NOT APPEAR ON ALL ASSEMBLIES.

5. DIMENSIONS IN BRACKETS ARE IN INCHES.

6. HOUSING FEATURES ARE: CLOSED END WITH
LOCKING RAMP AND WITH POLARIZING TAB.

OBsolete PARTS: OBSOLETE CIS STREAMLINING
PER D.RENAUD/D.SINISI

METRIC

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm [INCHES]

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ±

1 PLC ±

2 PLC ±

3 PLC ± 0.13 [.005]

4 PLC ±

ANGLES ±

FINISH 1

MATERIAL 1

DWN S. CARPENTER 11JUN2003

CHK D. BOSSI 11JUN2003

APVD D. BOSSI 11JUN2003

PRODUCT SPEC 108-1050

APPLICATION SPEC 114-1019

WEIGHT

CUSTOMER DRAWING

Tyco Electronics

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME

MTA 100 CONNECTOR ASSEMBLY,
22 AWG, STANDARD

SIZE A2

CAGE CODE 00779

DRAWING NO C=643813

RESTRICTED TO -

SCALE 5:1

SHEET 1 OF 1

REV H1

AMP 1471-9 REV 31MAR2000

643813