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LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
AF	50				
		C	REVISED PER ECR-09-010867	18MAY09	HMR GJ

1.52 [.060] MIN OUTER SIDE WALLS

LEAD LOK SLOT $\triangle 9$

0.76 [.030]

WRAP POST $\triangle 5$

TRIM POST $\triangle 5$

- $\triangle 1$ DIMENSIONS SPECIFIED MAY VARY PER CUSTOMER APPLICATION, DO NOT TOOL WITHOUT TYCO ELECTRONICS REVIEW AND APPROVAL.
- $\triangle 2$ TYCO ELECTRONICS REQUIRES THE FOLLOWING INFORMATION IN ORDER TO APPROVE THE CUSTOMERS APPLICATION DRAWING: MAGNET WIRE RANGE, LEAD WIRE RANGE, AND INSULATION DIAMETER.
- $\triangle 3$ MAGNET WIRE COIL MUST NOT EXCEED HEIGHT OF MAGNET WIRE SLOT AS SHOWN UNLESS PROVISIONS ARE MADE TO KEEP "FINISH" WIRE FLAT AGAINST BASE OF WIRE SLOT.
- $\triangle 4$ MATERIAL RECOMMENDED: NYLON 6/6 AND NYLON 6/6 30% GLASS FILLED. OTHER MATERIALS ARE ACCEPTABLE HOWEVER, CONSULT TYCO ELECTRONICS FOR SPECIFICATIONS.
- $\triangle 5$ 30 AWG. (ϕ 0.26 [.01]) WIRE AND FINER REQUIRES WIRE WRAP POST INSTEAD OF TRIM POST. SEE SPEC. DRW. 1601447.
- $\triangle 6$ MUST MAINTAIN SLOT THICKNESS (0.60) [.0235] INCLUDING DRAFT ANGLE FROM BOTTOM OF POCKET TO 0.38 [.015] MINIMUM ABOVE BASE OF WIRE SLOT. (0.71 [.028] MAX. THICKNESS AT TOP).
- $\triangle 7$ POCKET PITCH MUST MATCH TERMINAL PITCH, BUT WITH TOLERANCES SHOWN.
- $\triangle 8$ 1.52 [.060] MIN. WALL THICKNESS RECOMMENDED ON TRIM POST SIDE WHEN WIRE TRIMMING IS REQUIRED.
- $\triangle 9$ LEAD LOK SLOT TO BE POSITIONED ON LEAD WIRE EXIT SIDE. POSITION SHOWN IS FOR LEAD WIRE EXITING AWAY FROM WINDING.
- $\triangle 10$ SIZE THIS SLOT FOR LARGEST WIRE DIA. CONSULT MOLD VENDOR IF SMALLER THAN 0.51 [.020] IS TO BE SPECIFIED.
- $\triangle 11$ REFER TO TABLE. CONSULT TYCO ELECTRONICS IF WIRE SIZE TO BE USED, OVERLAP THE RANGES SHOWN.
- $\triangle 12$ SLOT DEPTH DIMENSIONS ARE FOR CONNECTING ONE MAGNET WIRE WITH A MOVING BEAM SIAMEZE CONTACT. CONSULT TYCO ELECTRONICS FOR BIFILAR (2 WIRE) CONNECTIONS.

5.59 \pm 0.08 [.220 \pm .003] PITCH $\triangle 7$

15° 2 PACES

3.96 \pm 0.08 [.156 \pm .003]

45° TYP

1.27 [.050]

1.78 [.070]

2.29 [.090] 2 PLACES

FULL RADIUS (BASE OF WIRE SLOT)

3.96 \pm 0.08 [.156 \pm .003]

LEAD WIRE SLOT, SIZE FOR LARGEST LEAD WIRE DIAMETER (.110" [2.79] MAX. SLOT)

ϕ 0.13 [.005] M A M $\triangle 10$

MAGNET WIRE SLOT ϕ 0.13 [.005] M A M $\triangle 10$

1.02 [.040]

SLOT DEPTH "X" $\triangle 3$ $\triangle 11$

8.64 [.340]

1.02 [.040] MIN

R0.38 [R.015] TYP

1.02 [.040] MIN 2 PLACES $\triangle 8$

0.60 \pm 0.04 [.0235 \pm .0015] 2 PLACES $\triangle 6$

15°

R.003 [0.08] MAX. TYP.

1.78 [.070]

WITH LEAD-LOK $\triangle 9$

WITHOUT LEAD-LOK

WIND HEIGHT $\triangle 3$

SECTION B-B

MAGNET WIRE SIZE mm DIA [AWG]	SLOT DEPTH "X" \pm 0.08 [\pm .003] $\triangle 12$
1.02-0.69 [#18-#21.5]	6.22 [.245]
0.65-0.43 [#22-#25.5]	5.92 [.233]
0.41-0.27 [#26-#29.5]	5.72 [.225]
0.25-0.17 [#30-#33.5]	5.59 [.220]
0.16-0.13 [#34-#36]	5.51 [.217]

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 27MAR2002 MICHAEL S. FEHER	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
DIMENSIONS: mm [INCHES]		CHK 27MAR2002 GENE JACONO	NAME KURT A. RANDOLPH	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC \pm - 1 PLC \pm - 2 PLC \pm 0.13 [.005] 3 PLC \pm - 4 PLC \pm - ANGLES \pm 2°		APVD 27MAR2002 KURT A. RANDOLPH	PRODUCT SPEC APPLICATION SPEC 114-13166	
MATERIAL $\triangle 4$		FINISH -	WEIGHT -	RESTRICTED TO -
		CUSTOMER DRAWING	SCALE 6:1	SHEET 1 OF 1
			SIZE A2	REV C

1471-9 (1/08)

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