PD2S 39-2048

iC-PD3948 Encoder Disc and Code Description



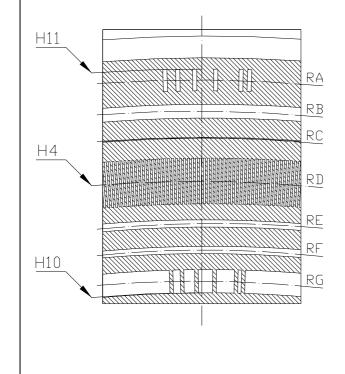
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ORDERING INFORMATION						
Туре	Order Designation	Description/Options				
		Incremental Code Disc				
Encoder Disc	PD2S 39-2048	A/B/Z 2048 PPR, C/D 1 PPR, dia 39 mm				

PHYSICAL DIMENSIONS Text S2 Design Example

Item	Parameter	Comments	[mm]	Tolerance
H1	Outer Diameter		39.0	± 100 μm
H2	Inner Diameter		18.0	+ 200 µm
НЗ	Thickness		1	± 100 µm
H4	Radius of Chip Center	referred to origin	17.5	
H5	Distance Pattern to Drill Hole		5.0	
Н6	Code Track Eccentricity		± 0.2	
H7	Text S1	readable on side of pattern	PD2S	
H8	Text S2	readable on side of pattern	39-2048	

TRACK LAYOUT



Item	Parameter	Comments	[mm]
H4	Radius of Chip Center	referred to origin	17.500
H11	Code Pattern Radius	end	19.045
H10	Code Pattern Radius	begin	15.965
H12	Recommended LED Spot Diameter	LED Spot	> 3.2
H13	Recommended LED Spot Center	radius as center of illumination	17.500
RA	Track Radius PZ		18.895
RB	Track Radius PC		18.465
RC	Track Radius NC		18.100
RD	Track Radius A/B		17.500
RE	Track Radius PD		16.920
RF	Track Radius ND		16.555
RG	Track Radius NZ		16.125

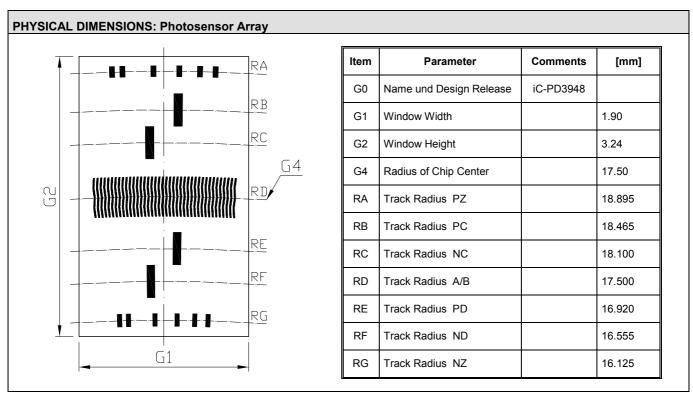
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TRACK ASSIGNMENT: Photosensor Array Radius Signal Track Pattern 1 PPR RA P7 PCDS-NCDS 1 PPR PSIN-NSIN RB PC PZ-NZ 0.5T 1 PPR RC NC 2048 PPR 2048 PPR 2048 PPR 2048 PPR RD **PSIN PCOS** NCOS NSIN Track Pattern 360° 1 PPR RE PD PZ-NZ PC-NO 1 PPR RF PD-ND ND 1 PPR RG NZ

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