

24

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED

DWG NO. 160038 SH 1 REV -

This Document is VALID ON-LINE, or if printed, FOR 24 HOUR from 9/29/2009 3:52:00 PM unless STAMPED as "CONTROLLED" in RED.

ALL SHEETS ARE THE SAME REVISION STATUS

APPROVALS	DATE	MPD	MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303		
DRAWN VLT	01-10-01		TITLE FILTER, 9.376 μm		
CHECKED					
ENGINEER					
Q.A.					
ISSUED		SIZE CAGE CODE DWG NO. REV. A 33173 160038 -			
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-160				SCALE N/A SHEET 1 of 2	

000008

FILTER SPECIFICATIONS

DWG NO.

160038

SH

2

REV.

CENTER WAVE LENGTH:	=	9.376 μ m
HALF POWER BANDWIDTH:	=	[REDACTED]
PEAK TRANSMITTANCE:	=	[REDACTED]
ATTENUATION:	=	[REDACTED]
EDGES:	=	[REDACTED]
SUBSTRATE:	=	[REDACTED]
SIZE	=	4.0 mm X 4.0 mm \pm .15mm
THICKNESS	=	[REDACTED]
SURFACE QUALITY	=	[REDACTED]
CRITICAL APERTURE (CLEAR):	=	3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER
CUT-ON SLOPE:	=	[REDACTED]
CUT-OFF SLOPE:	=	[REDACTED]
ENVIROMENTAL:	=	[REDACTED]
ABRAISON:	=	SLOW TAPE PER MIL-M-13508
ADHESION:	=	[REDACTED]

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]
 TEMPERATURE: [REDACTED]

COLOR CODE:

YELLOW

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

SIZE	CAGE CODE	DWG NO.	REV.
A	33173	160038	-
SCALE	N/A	SHEET 2 of 2	

000009

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
A	CM02-030 ABRASION CHG VLT		

DWG NO. 160038
SH 1
REV A

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ALL SHEETS ARE THE SAME REVISION STATUS

APPROVALS		DATE	MPD	MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303		
DRAWN	VLT	01-10-01				
CHECKED	VLT	01-10-01				
ENGINEER	TSH	01-10-30				
Q.A.	EHE	01-10-30				
ISSUED	VLT	01-10-30	TITLE FILTER, 9.376 μm			
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-160			SIZE A	CAGE CODE 33173	DWG NO. 160038	REV. A
			SCALE N/A	SHEET 1 of 2		000010

FILTER SPECIFICATIONS

DWG NO.

160038

SH

2

REV
A

CENTER WAVE LENGTH: = 9.376 μ m [REDACTED]

HALF POWER BANDWIDTH: = [REDACTED]

PEAK TRANSMITTANCE: = [REDACTED]

ATTENUATION: = [REDACTED]

EDGES: = [REDACTED]

SUBSTRATE: = [REDACTED]

SIZE = 4.0 mm X 4.0 mm \pm .15mm

THICKNESS = [REDACTED]

SURFACE QUALITY = [REDACTED]

CRITICAL APERTURE (CLEAR): = 3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER. COATING MAY EXTEND TO THE EDGE OF PART.

CUT-ON SLOPE: = [REDACTED]

CUT-OFF SLOPE: = [REDACTED]

ENVIROMENTAL: = [REDACTED]

ABRASION: = 50 CHEESECLOTH PER MIL-M-13508C, METHOD 1

ADHESION: = [REDACTED]

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]

TEMPERATURE: [REDACTED]

COLOR CODE:

YELLOW

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

SIZE A	CAGE CODE 33173	DWG NO. 160038	REV. A
SCALE N/A	SHEET 2 of 2		

000011

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
A	CM02-030 ABRASION CHG VLT	02-07-02	TSH/EHE
B	CM04-123 REMOVE COLOR CODE CDW	05-25-02	TSR/WS

DWG NO. 160038
 SH 1
 REV B

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ALL SHEETS ARE THE SAME REVISION STATUS

APPROVALS		DATE	MPD	MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303		
DRAWN	VLT	01-10-01				
CHECKED	VLT	01-10-01	TITLE FILTER, 9.376 μm			
ENGINEER	TSH	01-10-30				
Q.A.	EHE	01-10-30				
ISSUED	VLT	01-10-30				
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-160			SIZE	CAGE CODE	DWG NO.	REV.
			A	33173	160038	B
			SCALE	N/A	SHEET 1 of 2	

FILTER SPECIFICATIONS

DWG NO. 160038
SH 2
REV. B

CENTER WAVE LENGTH: = 9.376 μ m [REDACTED]

HALF POWER BANDWIDTH: = [REDACTED]

PEAK TRANSMITTANCE: = [REDACTED]

ATTENUATION: = [REDACTED]

EDGES: = [REDACTED]

SUBSTRATE: = [REDACTED]

SIZE = 4.0 mm X 4.0 mm \pm .15mm

THICKNESS = [REDACTED]

SURFACE QUALITY = [REDACTED]

CRITICAL APERTURE (CLEAR): = 3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER. COATING MAY EXTEND TO THE EDGE OF PART.

CUT-ON SLOPE: = [REDACTED]

CUT-OFF SLOPE: = [REDACTED]

ENVIROMENTAL: = [REDACTED]

ABRASION: = 50 CHEESE CLOTH PER MIL-M-13508C, METHOD 1

ADHESION: = [REDACTED]

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]

TEMPERATURE: [REDACTED]

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

SIZE A	CAGE CODE 33173	DWG NO. 160038	REV. B
SCALE N/A	SHEET 2 of 2		

000013

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
A	CM02-030 ABRASION CHG	VLT 02-07-02	TSH/EHE
B	CM04-123 REMOVE COLOR CODE	CDW 05-25-02	TSR/WS
C	CM04-258 CHG SIZE TO 4.2mm	CDW 11-17-04	TSR/WS

DWG NO. 160038
 SH I
 REV C

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ALL SHEETS ARE THE SAME REVISION STATUS

APPROVALS	DATE		MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303		
DRAWN	VLT 01-10-01		TITLE FILTER, 9.376 µm		
CHECKED	VLT 01-10-01				
ENGINEER	TSH 01-10-30				
Q.A.	EHE 01-10-30				
ISSUED	VLT 01-10-30				
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-160		SIZE A	CAGE CODE 33173	DWG NO. 160038	REV. C
		SCALE N/A	SHEET 1 of 2		

000014

FILTER SPECIFICATIONS

DWG NO. 160038
REV. 2 C

- CENTER WAVE LENGTH: = 9.376 μ m [REDACTED]
- HALF POWER BANDWIDTH: = [REDACTED]
- PEAK TRANSMITTANCE: = [REDACTED]
- ATTENUATION: = [REDACTED]
- EDGES: = [REDACTED]
- SUBSTRATE: = [REDACTED]
- SIZE = 4.2 mm X 4.2 mm \pm 0.1mm
- THICKNESS = [REDACTED]
- SURFACE QUALITY = [REDACTED]
- CRITICAL APERTURE (CLEAR): = 3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER. COATING MAY EXTEND TO THE EDGE OF PART.
- CUT-ON SLOPE: = [REDACTED]
- CUT-OFF SLOPE: = [REDACTED]
- ENVIROMENTAL: = [REDACTED]
- ABRASION: = 50 CHEESEBLOTH PER MIL-M-13508C, METHOD 1
- ADHESION: = [REDACTED]

DEFINE MEASUREMENT CONDITIONS:

- INCIDENT LIGHT: [REDACTED]
- TEMPERATURE: [REDACTED]

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

NOTE:- REMOVE ALL MARKINGS ON FILTER.

SIZE	CAGE CODE	DWG NO.	REV.
A	33173	160038	C
SCALE	N/A	SHEET 2 of 2	

000015


REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED

DWG NO. 160040
SH 1
REV -

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ALL SHEETS ARE THE SAME REVISION STATUS

APPROVALS		DATE		MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303		
DRAWN	VLT	01-10-16				
CHECKED						
ENGINEER						
Q.A.						
ISSUED			TITLE			
			FILTER, 3.476 μm			
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-171			SIZE	CAGE CODE	DWG NO.	REV.
			A	33173	160040	-
			SCALE	N/A	SHEET	1 of 2

000016

FILTER SPECIFICATIONS

DWG NO.

160040

SH

2

REV.

CENTER WAVE LENGTH:	=	3.476 μ m	[REDACTED]
HALF POWER BANDWIDTH:	=	[REDACTED]	
PEAK TRANSMITTANCE:	=	[REDACTED]	
ATTENUATION:	=	[REDACTED]	
EDGES:	=	[REDACTED]	
SUBSTRATE:	=	[REDACTED]	
SIZE	=	4.0 mm X 4.0 mm \pm .15mm	
THICKNESS	=	[REDACTED]	
SURFACE QUALITY	=	[REDACTED]	
CRITICAL APERTURE (CLEAR):	=	3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER	
CUT-ON, CUT-OFF SLOPE:	=	[REDACTED]	
ENVIROMENTAL:	=	[REDACTED]	
ABRASION:	=	SLOW TAPE PER MIL-M-13508	
ADHESION:	=	[REDACTED]	

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]

TEMPERATURE: [REDACTED]

COLOR CODE:

GREEN

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

SIZE	CAGE CODE	DWG NO.	REV.
A	33173	160040	-
SCALE	N/A	SHEET 2 of 2	

000017

DWG NO. 160040
 SH 1
 REV -

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
A	CM02-030 ABRASION CHG VLT		

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ALL SHEETS ARE THE SAME REVISION STATUS

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DRAWN	VLT		01-10-16	TITLE FILTER, 3.476 µm		
CHECKED	VLT		01-10-16			
ENGINEER	TSH		01-11-13			
Q.A.	EHE		01-12-07			
ISSUED	VLT	01-12-08				
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-171			SIZE A	CAGE CODE 33173	DWG NO. 160040	REV. A
			SCALE N/A	SHEET 1 of 2		

000018

FILTER SPECIFICATIONS

DWG NO.

160040

SHEET

2

REV A

CENTER WAVE LENGTH: = 3.476 μ m [REDACTED]

HALF POWER BANDWIDTH: = [REDACTED]

PEAK TRANSMITTANCE: = [REDACTED]

ATTENUATION: = [REDACTED]

EDGES: = [REDACTED]

SUBSTRATE: = [REDACTED]

SIZE = 4.0 mm X 4.0 mm \pm .15mm

THICKNESS = [REDACTED]

SURFACE QUALITY = [REDACTED]

CRITICAL APERTURE (CLEAR): = 3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER. COATING MAY EXTEND TO THE EDGE OF PART.

CUT-ON, CUT-OFF SLOPE: = [REDACTED]

ENVIROMENTAL: = [REDACTED]

ABRASION: = 50 CHEESECLOTH PER MIL-M-13508C, METHOD 1

ADHESION: = [REDACTED]

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]

TEMPERATURE: [REDACTED]

COLOR CODE:

GREEN

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

SIZE A	CAGE CODE 33173	DWG NO. 160040	REV. A
SCALE N/A	SHEET 2 of 2		

000019

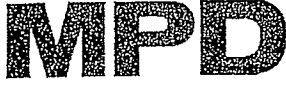
DWG NO. 160040
 SH 1
 REV B

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
A	CM02-030 ABRASION CHG VLT	02-07-02	TSH/EHE
B	CM04-123 REMOVE COLOR CODE CDW	05-25-04	TSR/WS

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APPROVALS	DATE		MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303		
DRAWN VLT	01-10-16		TITLE FILTER, 3.476 μm		
CHECKED VLT	01-10-16				
ENGINEER TSH	01-11-13				
Q.A. EHE	01-12-07				
ISSUED VLT	01-12-08				
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-171		SIZE A	CAGE CODE 33173	DWG NO. 160040	REV. B
		SCALE N/A	SHEET 1 of 2		

000020

FILTER SPECIFICATIONS

DWG NO. 160040
SH 2
REV B

CENTER WAVE LENGTH: = 3.476 μ m [REDACTED]

HALF POWER BANDWIDTH: = [REDACTED]

PEAK TRANSMITTANCE: = [REDACTED]

ATTENUATION: = [REDACTED]

EDGES: = [REDACTED]

SUBSTRATE: = [REDACTED]

SIZE = 4.0 mm X 4.0 mm \pm .15mm

THICKNESS = [REDACTED]

SURFACE QUALITY = [REDACTED]

CRITICAL APERTURE (CLEAR): = 3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER. COATING MAY EXTEND TO THE EDGE OF PART.

CUT-ON, CUT-OFF SLOPE: = [REDACTED]

ENVIROMENTAL: = [REDACTED]

ABRASION: = 50 CHEESECLOTH PER MIL-M-13508C, METHOD 1

ADHESION: = [REDACTED]

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]

TEMPERATURE: [REDACTED]

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

SIZE A	CAGE CODE 33173	DWG NO. 160040	REV. B
SCALE N/A	SHEET 2 of 2		

000021

REVISION HISTORY

REV.	DESCRIPTION	DATE	APPROVED
A	CM02-030 ABRASION CHG VLT	02-07-02	TSH/EHE
B	CM04-123 REMOVE COLOR CODE CDW	05-25-04	TSR/WS
C	CM04-258 CHG SIZE TO 4.2mm CDW	11-17-04	TSR/WS

DWG NO. 160040
 SH I
 REV C

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ALL SHEETS ARE THE SAME REVISION STATUS

APPROVALS	DATE		MPD, INC. 316 EAST NINTH STREET OWENSBORO, KENTUCKY 42303	
DRAWN VLT	01-10-16		TITLE FILTER, 3.476 μm	
CHECKED VLT	01-10-16			
ENGINEER TSH	01-11-13			
Q.A. EHE	01-12-07			
ISSUED VLT	01-12-08			
THIS DOCUMENT WAS ORIGINALLY CREATED BY ECN# CM01-171		SIZE A CAGE CODE 33173	DWG NO. 160040	REV. C
		SCALE N/A	SHEET 1 of 2	

000022

FILTER SPECIFICATIONS

DWG NO. 160040
 SH 2
 REV C

CENTER WAVE LENGTH:	=	3.476 μ m
HALF POWER BANDWIDTH:	=	[REDACTED]
PEAK TRANSMITTANCE:	=	[REDACTED]
ATTENUATION:	=	[REDACTED]
EDGES:	=	[REDACTED]
SUBSTRATE:	=	[REDACTED]
SIZE	=	4.2 mm X 4.2 mm \pm 0.1mm
THICKNESS	=	[REDACTED]
SURFACE QUALITY	=	[REDACTED]
CRITICAL APERTURE (CLEAR):	=	3.7 mm \pm .1 mm CIRCULAR DIAMETER FROM CENTER OF FILTER. COATING MAY EXTEND TO THE EDGE OF PART.
CUT-ON, CUT-OFF SLOPE:	=	[REDACTED]
ENVIROMENTAL:	=	[REDACTED]
ABRASION:	=	50 CHEESECLOTH PER MIL-M-13508C, METHOD 1
ADHESION:	=	[REDACTED]

DEFINE MEASUREMENT CONDITIONS:

INCIDENT LIGHT: [REDACTED]

TEMPERATURE: [REDACTED]

SOURCE: OPTICAL COATINGS LABORATORY, INC. (OCLI)

NOTE:- REMOVE ALL MARKINGS ON FILTER.

SIZE A	CAGE CODE 33173	DWG NO. 160040	REV. C
SCALE N/A	SHEET 2 of 2		

000023

ENGINEERING CHANGE REQUEST/NOTICE

MPD

③ ECN NO: 0101-140
 PAGE NO: 1 OF 1
 DATE ENTERED: 10/01/01
 REV: _____ TO _____

① ECR ECN NEW RELEASE ② ROUTINE SCHEDULE IMMEDIATE
 ④ END ITEM(S): STD BASELINE

⑥ ASSY DWG/BOM: _____ REV: _____ TO _____
 ⑦ PART DWG: 110038 (New)
 DESC #1: FILTER 2.375 O.D. x 1.00 I.D.
 DESC #2: O.C.L.T.

DISPOSITION OF MATERIAL (THIS ASSY): USE AS IS Rework Scrap Scrap

ORIGINATOR'S INPUT			MATERIAL'S INPUT									
⑨ CHG TYPE A, OR D	⑩ BLN NO.	⑪ COMPONENT NO.	⑫ DESCRIPTION (REF)	⑬ QUANTITY RECD	⑭ ENG (REF)	⑮ U/AH (REF)	⑯ TYPE	⑰ ENGINEERING TEXT (E.G. COMP REF DES)	⑱ DESP OF MAT (B) USE REAS (C) SUPP IS WORKING	⑲ EFTS MISL LOG	REMARKS	⑳ FREQUENCY DATES FROM TO

⑳ FROM: _____ TO: _____

REASON FOR CHANGE AND/OR COMMENTS
 ㉑ Create New Number and Specifications Circulate
 ㉒ IN STOCK: _____ ON ORDER: _____
 EST MATL COST: _____ LEAD TIME: _____
 COMMENTS: None In Stock
Have Not Received Quote
From Supplier

②③ EST LBR CST: _____ EST TLNG CST: _____
 MFG DOCUMENTATION: _____
 IMPLEMENTATION: _____
 COMMENTS: _____

②④ APPROVALS
 MATERIALS: Mr. White 10-19-01 DATE: _____
 MANUFACTURING: BR 10-19-01 DATE: _____
 SOCIALITY CONTROL: _____ DATE: _____
 CONFIGURATION CONTROL: _____ DATE: _____

②⑤ ORIGINATOR: Bill Schofield DATE: _____
 ②⑥ DISTRIBUTION KEY: _____
 RECEIVED FOR ECN PROCESSING DATE: 10/21/01 COMPLETION DATE: 10/30/01
 ②⑦ PRISM ENTRY DATE: 10/01/01
 BY: _____

000024

ENGINEERING CHANGE REQUEST/NOTICE

③ ECN NO: 0101-183
 PAGE NO: 1 OF 1
 DATE ENTERED: 11/13/01

① ECR ECN NEW RELEASE ② ROUTINE SCHEDULE IMMEDIATE
 ④ END ITEM(S): STD BASELINE

⑥ ASSY DWG/BOM: _____ REV: _____ TO _____
 DESC #1: Filter, 3.47u Micron
 DESC #2: GLASS OPTICAL COATINGS LABORATORY ETC
 DISPOSITION OF MATERIAL (THIS ASSY): USE AS IS REWORK SCRAP

ORIGINATOR'S INPUT			MATERIAL'S INPUT									
⑨ CHG TYPE A OR D	⑩ BLN NO.	⑪ COMPONENT NO.	⑫ DESCRIPTION (REF)	⑬ QUANTITY	⑭ U/M (REF)	⑮ ENG (REF)	⑯ U/M (REF)	⑰ ENG (REF)	⑱ REASON FOR CHANGE	⑲ REVISIONS	⑳ EFFECTIVE DATES	㉑ BOM
				⑬ RECD	⑭ ENG	⑮ U/M	⑯ U/M	⑰ ENG		⑲ FROM	⑲ TO	
												<input type="checkbox"/> BOM <input type="checkbox"/> ASSY DWG <input type="checkbox"/> PART DWG <input type="checkbox"/> SCHEM <input type="checkbox"/> ASST INSTR <input type="checkbox"/> TEST PROC <input type="checkbox"/> PROC INSTR <input type="checkbox"/> PROC INSTR <input checked="" type="checkbox"/> MSTR <input type="checkbox"/> ATTACH <input type="checkbox"/> CATALOG SHIT

⑳ FROM: _____ TO: _____

REASON FOR CHANGE AND/OR COMMENTS: create new for front

⑳ IN STOCK: _____ ON ORDER: _____ LEAD TIME: _____
 EST LBR CST: _____ EST TUNG CST: _____
 MFG DOCUMENTATION: _____
 IMPLEMENTATION: _____
 COMMENTS: _____

⑳ APPROVALS

ENGINEERING: <u>STH-11</u> DATE: <u>11/13/01</u>	MATERIALS: _____ DATE: _____
MARKETING: _____ DATE: _____	MANUFACTURING: _____ DATE: _____

RECEIVED FOR ECN PROCESSING DATE: 11/13/01 COMPLETION DATE: 12/07/01
 RECEIVED FOR ECN PROCESSING DATE: 11/13/01 COMPLETION DATE: 11/13/01

⑳ ORIGINATOR: STH DATE: 11/13/01 ㉑ DRAFTSMAN: vic thomas
 ㉒ DISTRIBUTION KEY: _____ DATE: _____
 ADDITIONAL DISTRIBUTION: _____ DATE: _____

MIPD

ENGINEERING CHANGE REQUEST/NOTICE

① ECR ECN NEW RELEASE ② ROUTINE SCHEDULE IMMEDIATE
 ③ ECN NO: CM06-030 PAGE NO: 1 OF 1
 ④ END ITEM(S): 100038, 100040 ⑤ STD BASELINE DATE ENTERED: 02/05/01

⑥ ASSY/DWG/BOM: _____ REV: _____ TO _____
 DESC #1: _____
 DESC #2: _____
 DISPOSITION OF MATERIAL (THIS ASSY): USE AS IS REWORK SCRAP

③ CHG TYPE A OR D	④ BLN NO.	⑤ COMPONENT NO.	ORIGINATOR'S INPUT				MATERIAL'S INPUT				⑧ BOM ASSEMBLY PART SCHEM ASSEMBLY TEST PROC PROC PROF INSTR ATTACH CIRCUIT SFR				
			⑩ DESCRIPTION (REF)	⑪ QUANTITY REQD	⑫ ENG TYPE	⑬ U/M (REF)	⑭ ENG TEXT (E.G. COMP. REF DES)	⑮ USE IN CONTR	⑯ SKETCH WISE U/D	⑰ REVISIONS		⑱ EFFECTIVE DATE FROM TO			

⑳ FROM: _____ TO: _____
 See Attached Sketch

REASON FOR CHANGE AND/OR COMMENTS
 ㉑ IN STOCK: _____ QTY ORDER: _____
 EST MAIL COST: _____ LEAD TIME: _____
 COMMENTS: _____
 ㉒ EST'LBR CST: _____ EST TUNG CST: _____
 MFG DOCUMENTATION: _____
 IMPLEMENTATION: _____
 COMMENTS: _____

㉓ APPROVALS
 ENGINEERING: John S. Hall DATE: 2/4/01 MATERIALS: M. White DATE: 2-5-01
 MARKETING: _____ DATE: _____ DATE: _____
 ㉔ ORIGINATOR: John S. Hall DATE: 2/4/01 ㉕ DRAFTSMAN: M. Whanna RECEIVED FOR ECR PROCESSING DATE: 02/05/01
 ㉖ DISTRIBUTION: _____ DATE: _____ DATE: _____
 ㉗ PRISM ENTRY: _____ DATE: 02/05/01
 DATE: 02/05/01 BY: RT

③ ECN NO: CMD4-123

PAGE NO: 1 OF 3

DATE ENTERED: 05-24-04

REV: A TO B

ENGINEERING CHANGE REQUEST/NOTICE

① ECR ECN NEW RELEASE ② ROUTINE SCHEDULE IMMEDIATE

④ END ITEM(S): STD BASELINE ⑤

⑦ PART DWG: 160038

DESC #1: FILTER, 9.376 u.d.

DESC #2: _____

DISPOSITION OF MATERIAL (THIS PART): USE AS IS Rework Scrap

⑧ CHG TYPE A OR D

⑩ COMPONENT NO.

⑫ DESCRIPTION (REF)

⑬ QUANTITY

⑭ REC'D

⑮ U/M (REF)

⑯ ENG TYPE

⑰ ENGINEERING TEXT (E.G. COMP REF DES)

⑱ USE (E.G. SUPP AS IN WORK)

⑲ WFLSH

⑳ FROM

⑳ TO

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

ORIGINATOR'S INPUT

REMARKS

②1 BOM

②2 ASSY DWG

②3 PART DWG

②4 SCHEM

②5 ASSY INSTR

②6 TEST PROC

②7 PROC INSTR

②8 PROD INSTR

②9 MSTR

③0 ATTACH CATALOG SFTY

③1

③2

③3

③4

③5

③6

③7

③8

③9

④0

④1

④2

④3

MATERIAL'S INPUT

REMARKS

④4 BOM

④5 ASSY DWG

④6 PART DWG

④7 SCHEM

④8 ASSY INSTR

④9 TEST PROC

⑤0 PROC INSTR

⑤1 PROD INSTR

⑤2 MSTR

⑤3 ATTACH CATALOG SFTY

⑤4

⑤5

⑤6

⑤7

⑤8

⑤9

⑥0

⑥1

⑥2

⑥3

⑥4

⑥5

⑥6

REASON FOR CHANGE AND/OR COMMENTS

⑥7

⑥8

⑥9

⑦0

⑦1

⑦2

⑦3

⑦4

⑦5

⑦6

⑦7

⑦8

⑦9

⑧0

⑧1

⑧2

⑧3

⑧4

⑧5

⑧6

⑧7

⑧8

⑧9

⑨0

MANUFACTURING

⑨1

⑨2

⑨3

⑨4

⑨5

⑨6

⑨7

⑨8

⑨9

⑩0

⑩1

⑩2

⑩3

⑩4

⑩5

⑩6

⑩7

⑩8

⑩9

⑪0

⑪1

⑪2

⑪3

⑪4

MPD

⑥ ASSY DWG/BOM: _____

DESC #1: _____

DESC #2: _____

DISPOSITION OF MATERIAL (THIS ASSY): USE AS IS Rework Scrap

⑨ CHG TYPE A OR D

⑩ COMPONENT NO.

⑫ DESCRIPTION (REF)

⑬ QUANTITY

⑭ REC'D

⑮ U/M (REF)

⑯ ENG TYPE

⑰ ENGINEERING TEXT (E.G. COMP REF DES)

⑱ USE (E.G. SUPP AS IN WORK)

⑲ WFLSH

⑳ FROM

⑳ TO

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

⑳ FROM: _____

⑳ TO: _____

APPROVALS

②9 APPROVALS

MANUFACTURING: MSR DATE: 05-24-04

DATE: _____

DATE: _____

DATE: _____

ENGINEERING: M.W. DATE: 5-24-04

DATE: _____

DATE: _____

DATE: _____

DATE: _____

DATE: _____

MATERIALS: M. White DATE: 5-24-04

DATE: _____

DATE: _____

DATE: _____

DATE: _____

DATE: _____

②9 ORIGINATOR: M. Schofield DATE: 5-24-04

DATE: _____

DATE: _____

DATE: _____

DATE: _____

DATE: _____

②9 DISTRIBUTION KEY: _____

ADDITIONAL DISTRIBUTION: _____

RECEIVED FOR ECN PROCESSING DATE: _____

ECN COMPLETION DATE: _____

②9 PRISM ENTRY DATE: 5/25/04

BY: MSW

REMOVE COLOR CODE YELLOW AS PER MARK UP.

MPD

ENGINEERING CHANGE REQUEST/NOTICE

1 ECR

ECN

NEW RELEASE

2 ROUTINE

SCHEDULE

IMMEDIATE

3

OF

3

ECN NO:

PAGE NO:

DATE ENTERED:

4 END ITEM(S):

5 STD

BASELINE

6 ASSY DWG/BOM:

REV: TO

7 PART DWG:

REV: A TO B

DESC #1: FILTER 3.476 4 m

DESC #2:

DISPOSITION OF MATERIAL (THIS PART):

REWORK

SCRAP

8 CHG A OR D

9 BLN NO.

10 COMPONENT NO.

11 DESCRIPTION (REF)

12 QUANTITY

13 RECD

14 ENG (REF)

15 U/A (REF)

16 TYPE

17 ENGINEERING TEXT (E.G. COMP REF DES)

18 USE INC- SCOP AS WORK

19 BRKSH W/USE LOC

20 REMARKS

21 EFFECTIVITY DATES FROM TO

22 BOM

23 ASSY DWG

24 PART DWG

25 SCHEM

26 ASST INSTR

27 TEST PROC

28 PROG INSTR

29 PROD INSTR

30 MSTR

31 KATACH

32 CATALOG SHY

33

ORIGINATOR'S INPUT

MATERIAL'S INPUT

9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	

34 FROM:

TO:

REMOVE COLOR CODE GREEN

REASON FOR CHANGE AND/OR COMMENTS

21

22 IN STOCK

EST MATL COST:

COMMENTS:

ON ORDER:

LEAD TIME:

23

EST LBR CST:

EST TING CST:

24

MFG DOCUMENTATION:

IMPLEMENTATION:

COMMENTS:

MANUFACTURING

ENGINEERING:

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25 ORIGINATOR:

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26 DISTRIBUTION KEY:

ADDITIONAL DISTRIBUTION:

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27 PRISM ENTRY DATE:

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000029

ENGINEERING CHANGE REQUEST/NOTICE

③ ECN NO: CM04-258

① ECR ECN NEW RELEASE ② ROUTINE SCHEDULE IMMEDIATE PAGE NO: 1 OF 1

④ END ITEM(S): _____ DATE ENTERED: 11-16-04

⑤ STD BASELINE REV: B TO C

⑥ ASSY DWG/BOM: _____
DESC #1: _____
DESC #2: _____

⑦ PART DWG: 160038 & 160040
DESC #1: FILTER
DESC #2: _____

DISPOSITION OF MATERIAL (THIS PART): USE AS IS REWORK SCRAP

DISPOSITION OF MATERIAL (THIS ASSY): USE AS IS REWORK SCRAP

ORIGINATOR'S INPUT

⑨ CHG TYPE A OR D

⑩ BLN NO.

⑪ COMPONENT NO.

⑫ DESCRIPTION (REF)

⑬ QUANTITY

⑭ REC'D

⑮ ENG

⑯ U/A/M (REF)

⑰ TYPE

⑱ ENGINEERING TEXT (E.G. COMP REF DES)

⑲ USE: RE- WORK LOC

⑳ MATERIAL'S INPUT

REMARKS

① EFFECTIVE DATES FROM TO

② BOM

③ ASSY DWG

④ PART DWG

⑤ SCHEM

⑥ ASSY INSTR

⑦ TEST PROC

⑧ PROC INSTR

⑨ PROD INSTR

⑩ ATTACH CATALOG SRID

⑳ FROM: _____

TO: _____

(CHANGE SIZE)

REASON FOR CHANGE AND/OR COMMENTS

⑳ SEE E-MAIL

MATERIALS

⑳ IN STOCK: _____

ON ORDER: _____

LEAD TIME: _____

EST MAT. COST: _____

COMMENTS: 160038 150 ON HAND 420 ON ORDER

160040 150 ON HAND 420 ON ORDER

MANUFACTURING

⑳ EST LBR CST: _____

EST TUNG CST: _____

MFG DOCUMENTATION: _____

IMPLEMENTATION: _____

COMMENTS: _____

⑳ APPROVALS

MANUFACTURING: MR DATE: 11-17-04

DATE: _____

QUALITY CONTROL

DATE: _____

CONFIGURATION CONTROL

DATE: _____

ENGINEERING: MS DATE: _____

MARKETING: M. White DATE: 11/16/04

ORIGINATOR: W. SCHOFIELD DATE: 11-16-04 ⑳ DRAFTSMAN: _____

⑳ DISTRIBUTION KEY: _____

RECEIVED FOR ECN PROCESSING DATE: _____

ECN COMPLETION DATE: _____

⑳ PRISM ENTRY DATE: 11-17-04

BY: CDW

000030