

RECOMMENDED PCB LAYOUT

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE	02JUL2018	JAH	
A2	-	UPDATE DRAWING	25/MAR/19	BROOK	TOMMY
A3	-	MODIFIED DESCRIPTION	12JUL19	BROOK	TOMMY

NOTES: UNLESS OTHERWISE SPECIFIED

SEE SHEET 2 FOR KEY ARRANGEMENTS AND COLORS.

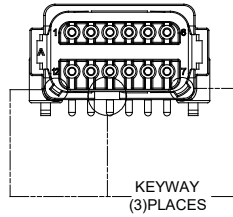
2. MATERIAL:  
HOUSING: THERMOPLASTIC; COLOR: SEE SHEET 2  
CONTACT: COPPER ALLOY  
PLATING: NICKEL UNDERPLATE  
SEE CHART FOR OVERALL FINISH
3. MODIFICATIONS: RIGHT ANGLE PCB MOUNT, SNAP FIT
4. SPECIFICATIONS:  
4.1 CURRENT RATING: 13 AMPS  
4.2 OPERATING TEMPERATURE: -55°C TO +125°C  
4.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.  
4.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.  
4.5 MOISTURE RESISTANCE: IP67 ( MATED CONDITION )  
4.6 MATING CYCLE DURABILITY: 100 CYCLES  
4.7 RoHS COMPLIANT
5. MATING PART: AT06-12SX\* PLUG  
( X = A,B,C,D KEYS; \* = MODIFICATIONS AND COLORS )
6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

TITLE: RIGHT ANGLE RECEPT. AT 12 PIN, SNAP FIT, BOARDLOCK  
DWG NO: ATF-13-12PX-BMOX  
REV: A3  
SH: 1  
OF: 2

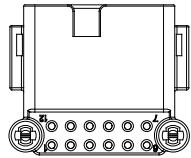
SEE PART NUMBER CHART		REF: DTF13-12PA, DTF13-12PB, DTF13-12PC, DTF13-12PD, DTF13-12PA-G003																																																																									
PART NUMBER		DESCRIPTION																																																																									
ITEM		ITEM																																																																									
<table border="1"> <thead> <tr> <th>QUANTITY</th> <th colspan="3">MATERIALS LIST</th> </tr> </thead> <tbody> <tr> <td colspan="4">UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td colspan="4">1) All dimensions are in metric (mm).</td> </tr> <tr> <td colspan="4">2) Tolerances are as follows:</td> </tr> <tr> <td>1 PL DEC ±0.30</td> <td>Fractions ±1/64</td> <td colspan="2"></td> </tr> <tr> <td>2 PL DEC ±0.15</td> <td>Angles ±1°</td> <td colspan="2"></td> </tr> <tr> <td>3 PL DEC ±0.08</td> <td></td> <td colspan="2"></td> </tr> <tr> <td colspan="4">3) Note reference = </td> </tr> <tr> <td colspan="2">SIGNATURES</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">DRAWN: BROOK DING</td> <td colspan="2">12/JUL/19</td> </tr> <tr> <td colspan="2">CHECKED: ORION LI</td> <td colspan="2">12/JUL/19</td> </tr> <tr> <td colspan="2">ENGINEER:</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">APPROVAL: TOMMY XIE</td> <td colspan="2">12/JUL/19</td> </tr> <tr> <td colspan="2">MATERIAL SPECIFICATIONS:</td> <td colspan="2">CUSTOMER:</td> </tr> <tr> <td colspan="2">PROCESS SPECIFICATIONS:</td> <td colspan="2">THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.</td> </tr> <tr> <td colspan="2">NEXT ASSY:</td> <td>SCALE: NONE</td> <td>REVISION</td> </tr> <tr> <td colspan="2"></td> <td>SIZE: B C-</td> <td>DWG NO: ATF13-12PX-BMOX</td> </tr> <tr> <td colspan="2"></td> <td>SHEET 1</td> <td>OF 1</td> </tr> </tbody> </table>				QUANTITY	MATERIALS LIST			UNLESS OTHERWISE SPECIFIED				1) All dimensions are in metric (mm).				2) Tolerances are as follows:				1 PL DEC ±0.30	Fractions ±1/64			2 PL DEC ±0.15	Angles ±1°			3 PL DEC ±0.08				3) Note reference =				SIGNATURES		DATE		DRAWN: BROOK DING		12/JUL/19		CHECKED: ORION LI		12/JUL/19		ENGINEER:				APPROVAL: TOMMY XIE		12/JUL/19		MATERIAL SPECIFICATIONS:		CUSTOMER:		PROCESS SPECIFICATIONS:		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.		NEXT ASSY:		SCALE: NONE	REVISION			SIZE: B C-	DWG NO: ATF13-12PX-BMOX			SHEET 1	OF 1
QUANTITY	MATERIALS LIST																																																																										
UNLESS OTHERWISE SPECIFIED																																																																											
1) All dimensions are in metric (mm).																																																																											
2) Tolerances are as follows:																																																																											
1 PL DEC ±0.30	Fractions ±1/64																																																																										
2 PL DEC ±0.15	Angles ±1°																																																																										
3 PL DEC ±0.08																																																																											
3) Note reference =																																																																											
SIGNATURES		DATE																																																																									
DRAWN: BROOK DING		12/JUL/19																																																																									
CHECKED: ORION LI		12/JUL/19																																																																									
ENGINEER:																																																																											
APPROVAL: TOMMY XIE		12/JUL/19																																																																									
MATERIAL SPECIFICATIONS:		CUSTOMER:																																																																									
PROCESS SPECIFICATIONS:		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.																																																																									
NEXT ASSY:		SCALE: NONE	REVISION																																																																								
		SIZE: B C-	DWG NO: ATF13-12PX-BMOX																																																																								
		SHEET 1	OF 1																																																																								
<p style="text-align: center;"><b>Amphenol</b></p> <p style="text-align: center;">Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p style="text-align: center;"><b>RIGHT ANGLE RECEPTACLE, AT 12 PIN, SNAP FIT, BOARDLOCK</b></p>																																																																											

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE	02JUL2018	JAH	
A2	-	UPDATE DRAWING	25/MAR/19	BROOK	TOMMY
A3	-	MODIFIED DESCRIPTION	12JUL19	BROOK	TOMMY

P/N ATF13-12PA-BM0X  
KEY-A CONFIGURATION  
STANDARD COLOR: GREY

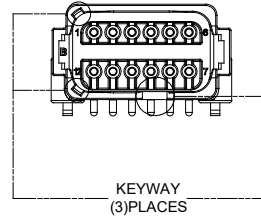


KEYWAY  
(3)PLACES

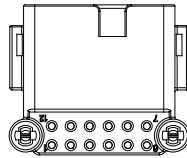


ATF13-12PA-BM0X VARIANTS	
CONTACT PLATING	PART NUMBER
GOLD	ATF13-12PA-BM01
TIN	ATF13-12PA-BM03

P/N ATF13-12PB-BM0X  
KEY-B CONFIGURATION  
STANDARD COLOR: BLACK

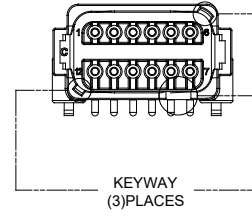


KEYWAY  
(3)PLACES

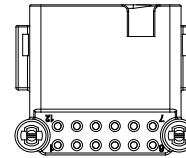


ATF13-12PB-BM0X VARIANTS	
CONTACT PLATING	PART NUMBER
GOLD	ATF13-12PB-BM01
TIN	ATF13-12PB-BM03

P/N ATF13-12PC-BM0X  
KEY-C CONFIGURATION  
STANDARD COLOR: GREEN

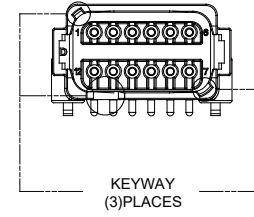


KEYWAY  
(3)PLACES

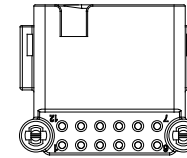


ATF13-12PC-BM0X VARIANTS	
CONTACT PLATING	PART NUMBER
GOLD	ATF13-12PC-BM01
TIN	ATF13-12PC-BM03

P/N ATF13-12PD-BM0X  
KEY-D CONFIGURATION  
STANDARD COLOR: BROWN



KEYWAY  
(3)PLACES



ATF13-12PD-BM0X VARIANTS	
CONTACT PLATING	PART NUMBER
GOLD	ATF13-12PD-BM01
TIN	ATF13-12PD-BM03

SEE PART NUMBER CHART		DESCRIPTION		ITEM	
PART NUMBER		DESCRIPTION		ITEM	
QUANTITY	MATERIALS LIST				
<small>UNLESS OTHERWISE SPECIFIED</small> 1) All dimensions are in metric (mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 Fractions ±1/64 2 PL DEC ±0.15 Angles ±1° 3 PL DEC ±0.08 3) Note reference =		<small>SIGNATURES</small> DRAWN: BROOK.DING 12/JUL/19 CHECKED: ORION.LI 12/JUL/19 ENGINEER: APPROVAL: TOMMY.XIE 12/JUL/19 CUSTOMER:		 Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036 <b>RIGHT ANGLE RECEPTACLE, AT 12 PIN, SNAP FIT, BOARDLOCK</b>	
<small>MATERIAL SPECIFICATIONS:</small>  <small>PROCESS SPECIFICATIONS:</small>  <small>NEXT ASSY:</small>		<small>THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.</small>			
		<small>SIZE</small> <b>B C-</b> <small>TYPE</small> <small>SCALE</small> NONE	<small>DWG NO.</small> <b>ATF13-12PX-BM0X</b>		<small>REVISION</small> <b>A3</b>
		<small>SHEET</small> 2 <small>OF</small> 2			

TITLE: RIGHT ANGLE RECEPT. AT 12 PIN, SNAP FIT, BOARDLOCK  
DWG NO.: ATF13-12PX-BM0X  
REV: A3  
SH: 2  
OF: 2