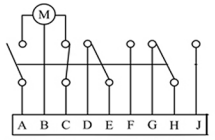
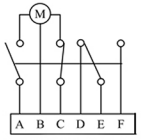
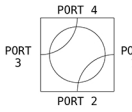


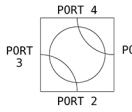
PT02E12-10P-072 CONNECTOR
W/2 C-FORM CONTACTS



PT02E10-6P-072 CONNECTOR
W/1 C-FORM CONTACT



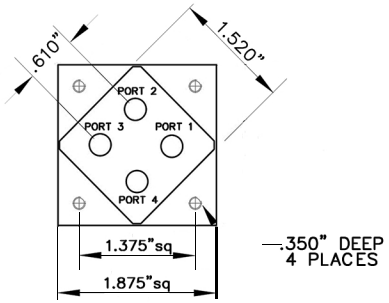
POSITION 1



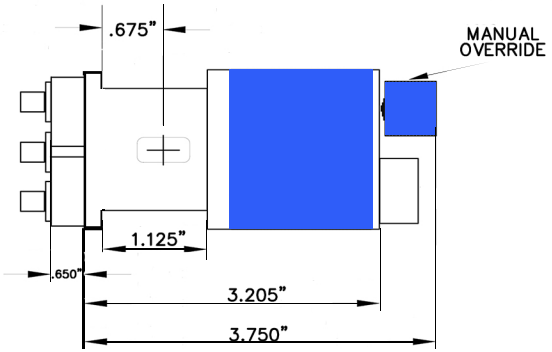
POSITION 2

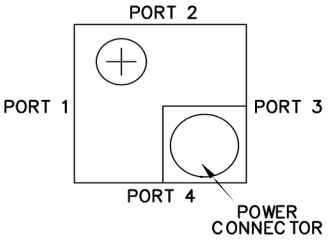
WAVEGUIDE

REVISIONS		APPROVALS			
SYM	DESCRIPTION	DATE	ENGRG	PROD	Q.A.



.350" DEEP
4 PLACES





1.0 ELECTRICAL
1.1 OPERATING FREQUENCY (WAVEGUIDE): 18.0 – 26.5 GHZ
RETURN LOSS: –23DB MIN
ISOLATION: 60DB MIN
INSERTION LOSS: .15DB MAX

COAXIAL

Frequency(GHz)	0-2	1-3	3.5-4.2	5.85-8.2	10.7-14.5	17.0-18.4
VSWR	1.10	1.15	1.25	1.30	1.35	1.50
Insertion Loss(dB)	0.05	0.10	0.25	0.30	0.35	0.5
Isolation(dB)	80	70	60	60	50	50

1.3 ISOLATION WAVEGUIDE TO COAX: 120DB
1.4 POWER HANDLING (WAVEGUIDE): 1KW CW
1.5 DRIVING VOLTAGE: OPTIONAL
1.6 C-FORM CONTACTS: 2 IN STD UNIT
1.7 INHIBIT CONTACTS: OPTIONAL (OPEN BEFORE VSWR EXCEEDS 1.3
1.8 SWITCHING TIME: 90 MSEC MAX
1.9 POWER CONNECTOR: PT02E12-10P-072 OR PT02E10-6P-072

2.0 MECHANICAL
2.1 WAVEGUIDE SIZE: WR42
2.2 FLANGE: OPTIONAL
2.3 COAXIAL CONNECTORS: SMA
2.4 PRESSURE: 20 PSI (INCLUDING DRIVER)
2.5 MATERIAL: 80% ALUMINUM
2.6 FINISH: LUSTERON ON WAVEGUIDE, ANODIZE ON DRIVER
2.7 WEIGHT: .500 KG

3.0 ENVIRONMENTAL
3.1 OPERATING TEMP: –40° TO +75° C
3.2 NON OPERATING TEMP: –50° TO +100° C
3.3 HUMIDITY: 100%
3.4 SHOCK & VIBRATION: STD SHIPPING

WAVEGUIDE/COAX DETAILS | DRIVER DETAILS | VOLTAGE DETAILS

AST [4] [2] [ ] [DS] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ]

- **4 2** — Waveguide Size
- **DS** — Dual Option (N type Connector not available for WR90 & smaller)
- [ ] — Coax Frequency Code
- [ ] — Flange: **F** Flat, **O** O-ring, **C** Choke
- [ ] — Thread (omit for NA threads): **M** Metric
- [ ] — Option 1 (omit if not needed): **S** Side Connector
- [ ] — Option 2 (omit if not needed): **W** Weather, **L** Lock
- [ ] — Connector option: **10P** 10 pin, **6P** 6 pin
- [ ] — Option 3 (omit if not needed): Special wiring See Wiring Diagrams
- [ ] — Voltage Option: **M** Manual, **P** Positive, **N** Negative
- [ ] [ ] [ ] — Voltage (omit for manual)

Note: 10P & 6P Come with miniature drive head

Code	1	2	3	4	5	6
Connector	SMA only	SMA only	SMA only	SMA only	SMA only	SMA only
Freq Range (GhZ)	DC - 2.0	1.0 - 3.0	3.5 - 4.2	5.85 - 8.2	10.7 - 14.5	17.0 - 18.4

STEP ELECTRONICS
A Division of Av-Comm

BREAK ALL CORNERS AND SHARP EDGES

UNLESS OTHERWISE SPECIFIED
FRACTIONAL ± 1/32
DECIMAL .XXX ± .010
.XX ± .020
ANGULAR ± 1/2°
DO NOT SCALE

MATERIAL: NOTED
SPEC:

FINISH: NOTED
SPEC:

DRAWN	MC	05/27/2017
CHECKER		
MECH. ENGR.		
ELEC. ENGR.		
PROJ. ENGR.		
CHIEF ENGR.		

PROPRIETARY INFORMATION
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DUAL WAVEGUIDE/COAX SWITCH
WR 42

AST MICROWAVE

SCALE

SHEET 1 OF 1

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