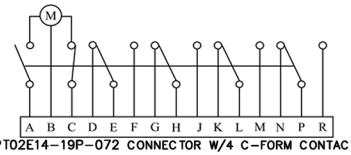
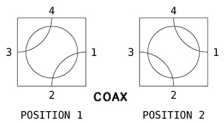
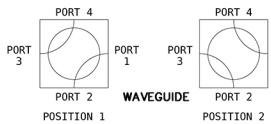
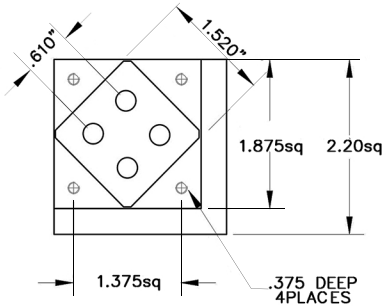


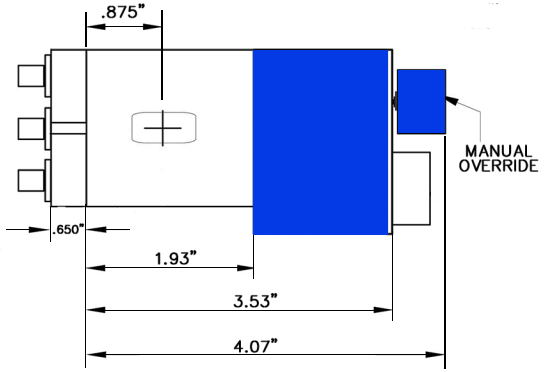
PT02E14-19P-072 CONNECTOR W/4 C-FORM CONTACTS

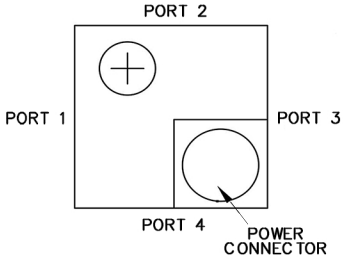




REVISIONS		APPROVALS			
SYM	DESCRIPTION	DATE	ENGRG	PROD	Q.A.







1.0 ELECTRICAL
1.1 OPERATING FREQUENCY (WAVEGUIDE): 10.0 – 15.0 GHZ
RETURN LOSS: –28DB MIN
ISOLATION: 70DB MIN
INSERTION LOSS: .05DB MAX

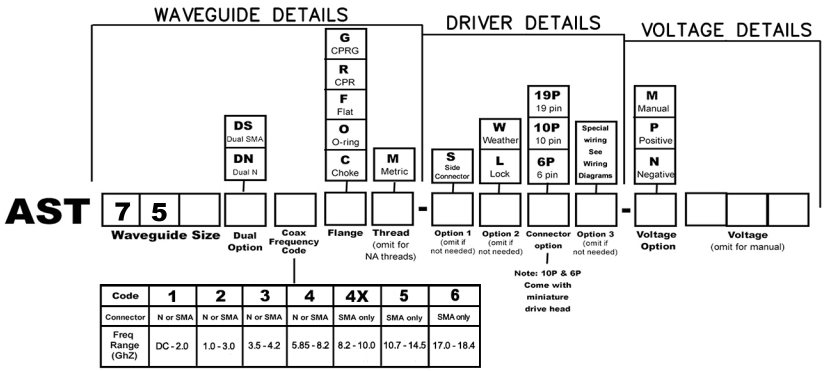
COAXIAL

FREQUENCY (GHz)	0–2.0	1.0–3.0	3.5–4.2	5.85–8.2	8.2–10.0	10.7–14.5	17.0–18.4
VSWR	1.10	1.15	1.25	1.30	1.30	1.32	1.50
INSERTION LOSS (dB)	0.05	0.10	0.25	0.30	0.30	0.35	0.50
ISOLATION (dB)	80	70	60	60	60	50	50

1.3 ISOLATION WAVEGUIDE TO COAX: 120DB
1.4 POWER HANDLING (WAVEGUIDE): 5KW CW
1.5 DRIVING VOLTAGE: OPTIONAL
1.6 C-FORM CONTACTS: 4 IN STD UNIT
1.7 INHIBIT CONTACTS: OPTIONAL (OPEN BEFORE VSWR EXCEEDS 1.3:1)
1.8 SWITCHING TIME: 90 MSEC MAX
1.9 POWER CONNECTOR: PT02E14-19P-072

2.0 MECHANICAL
2.1 WAVEGUIDE SIZE: WR75
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: .700 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



Code	1	2	3	4	4X	5	6
Connector	N or SMA	N or SMA	N or SMA	N or SMA	SMA only	SMA only	SMA only
Freq Range (GhZ)	DC - 2.0	1.0 - 3.0	3.5 - 4.2	5.85 - 8.2	8.2 - 10.0	10.7 - 14.5	17.0 - 18.4

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 75

SCALE

SHEET 1 OF 1

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