

1.0 ELECTRICAL

1.1 OPERATING FREQUENCY (WAVEGUIDE): 26.5 – 40.0 GHZ (TELECOM BANDS)
 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)
- 1.8 SWITCHING TIME: 90 MSEC MAX
- 1.9 POWER CONNECTOR: PT02E12-10P-072 OR PT02E10-6P-072

2.0 MECHANICAL

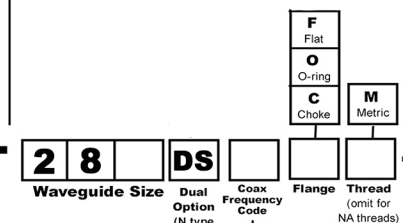
- 2.1 WAVEGUIDE SIZE: WR28
- 2.2 FLANGE: OPTIONAL
- 2.3 COAXIAL CONNECTORS: SMA
- 2.4 PRESSURE: 20 PSI (INCLUDING DRIVER)
- 2.5 MATERIAL: 80% ALUMINUM
- 2.6 FINISH: LUSTERON ON WAVEGUIDE, ANODIZE ON DRIVER
- 2.7 WEIGHT: .500 KG

3.0 ENVIRONMENTAL

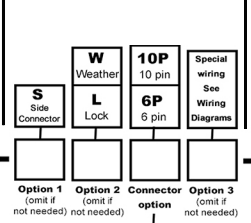
- 3.1 OPERATING TEMP: -40° TO +75° C
- 3.2 NON OPERATING TEMP: -50° TO +100° C
- 3.3 HUMIDITY: 100%
- 3.4 SHOCK & VIBRATION: STD SHIPPING

PROPRIETARY INFORMATION
 THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED, TRANSFERRED TO OTHER DOCUMENTS, DISCLOSED TO OTHERS, USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION FROM AST.

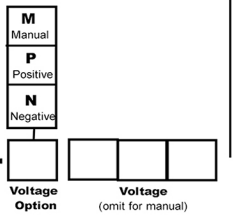
WAVEGUIDE/COAX DETAILS



DRIVER DETAILS



VOLTAGE DETAILS



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

BREAK ALL CORNERS AND SHARP EDGES

UNLESS OTHERWISE SPECIFIED	DRAWN	MC	05/21/2007
FRACTIONAL ± 1/32	CHECKER		
DECIMAL .xxx ± .010			
ANGULAR .XX ± .020	MECH. ENGR.		
ANGULAR .X ± 1/2°	ELEC. ENGR.		
	PROJ. ENGR.		
MATERIAL: NOTED	CHIEF ENGR.		
SPEC:			
FINISH: NOTED			
SPEC:			

DUAL WAVEGUIDE/COAX SWITCH
WR 28

SCALE: SHEET 1 OF 1