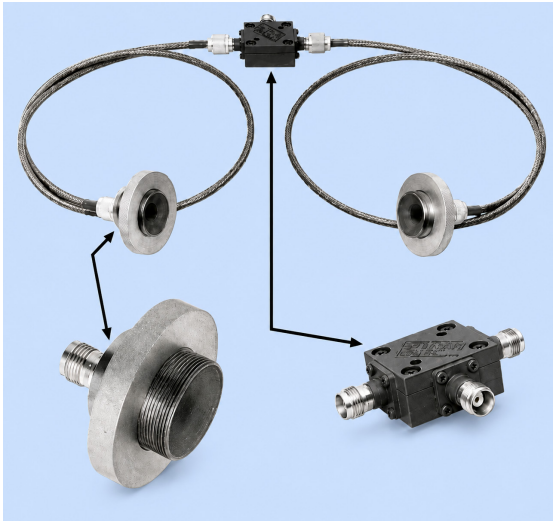


High Temp Flush Mounted Space Proven Circular Polarized Antenna



Standard Features

- Adjustable mounting flange
- Heat resistant, survives 3000 degree Fahrenheit
- Environmentally qualified, proven in space environment
- Flush mounted for zero drag
- Rugged construction, high temp aperture, S.S. body
- Small and lightweight

The family of high temperature, flush mountable antennas are circularly polarized and designed to provide flight instrumentation data (telemetry, tracking beacon). These antennas will survive heat pulses of 3000 F and can operate in a 1000 F environment for five minutes.

These Antennas are constructed of a high temp aperture in a stainless steel body. An adjustable mounting flange threads onto the antenna body and may be shaped to fit any diameter vehicle greater than 3.5 inches. The antenna is extremely small, lightweight and may be used singly or in arrays of 2,3, or more to achieve specific pattern coverage. Two, three, and four-way matched power dividers and interconnecting cables are available to join the antenna elements into an array.

Right-hand circular polarization is standard, but the antenna is available upon request with the left-hand circular polarization.

Electrical Specifications

Type Number	102110	107015	106002	108013
Function:	Telemetry	MDI	Beacon Track	Beacon Track
Frequency, GHz:	2.20-2.40	4.40-4.80	5.40-5.90	8.9-9.5
VSWR (50 OHMS:) Max.	2.0:1	1.75:1	1.75:1	2.0:1
Polarization:	RHCP	RHCP	RHCP	RHCP
Power Handling:	1 KW Peak	1 KW Peak	1 KW Peak	1 KW Peak
	28W CW	low cw	low cw	low cw
Beamwidth, Nominal:	70°	70°	70°	70°
Gain, Minimum:	6 dBic	6 dBic	6 dBic	6 dBic
Connector:	SMA	SMA	TNC/SMA* T	NC



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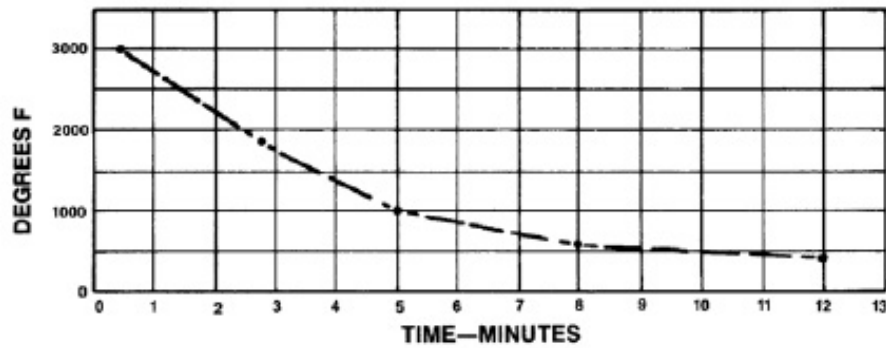
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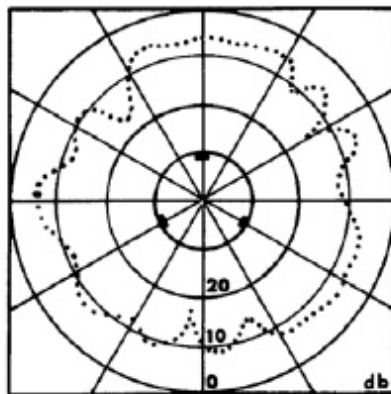
solutions@trak.com

High Temp Flush Mounted Space Proven Circular Polarized Antenna

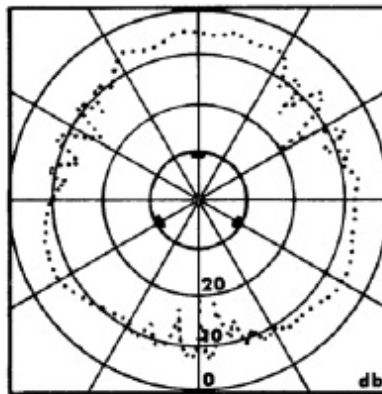
Time-Temperature Capability



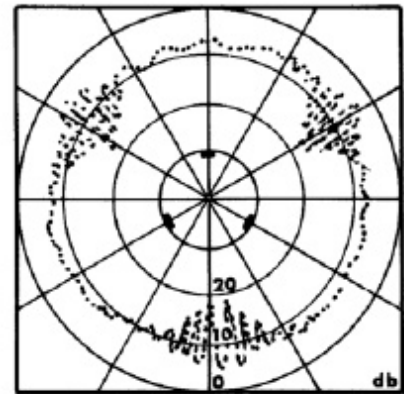
Array of Three Antennas, 5.6 GHz
Typical Roll Plane Radiation Patterns



7" DIA. VEHICLE



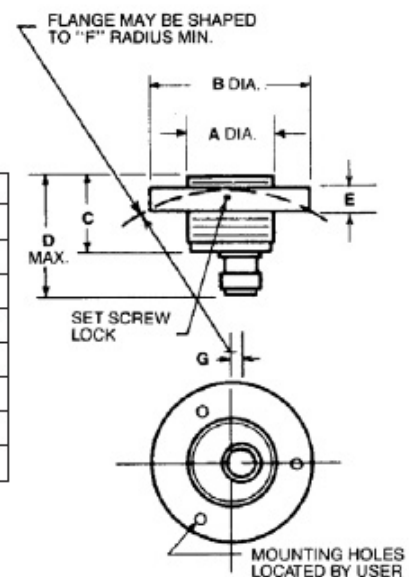
15" DIA. VEHICLE



38" DIA. VEHICLE

Type Number	Letter	102110	107015	106002	108013
Weight, Oz.,*	-	40.0*	8.0	5.0	6.0
Body Dia. (Thd.)	A	2.750-20	1.375-28	1.125-28	1.125-28
Flange Dia.	B	4.00	2.250	2.00	2.00
Body Height	C	2.50	1.155	0.97	0.97
Overall Height	D	2.90 1	.530	1.50	1.50
Flange Thick	E	0.38	0.31	0.31	0.31
Min. Radius	F	6.00	2.0	1.75	1.75
Conn. Offset	G	0.32	0.129	0.13	0.13

*Weight includes flange



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