

DESCRIPTION

Compact FSM with its controller box for embedded electro optic systems.



DTT15XS-SG with mirror

APPLICATION

Image stabilisation and micro-scan combined in a single unit (5th and 6th axis of gyro stabilised platform).



Batch of DTT15xS-SG with mirror

ENVIRONMENTAL CONDITIONS

- Operating temperature: -40°C/+70°C
- Storage temperature: -55°C/+85°C
- High altitude operation: 55 000 ft
- High altitude storage: 70 000 ft
- Half sine Shock level : >20 G
- Vibration level (CBO): 0.025 g²/Hz up to 1 kHz



DTT15XS-SG with CCBu20 controller

PARAMETER	UNIT	DTT15XS-SG
Angular stroke Rx & Ry +/-	mrad	1.1
Dimensions	mm	40×40×28
Total mass	g	136
Mirror mass	g	10
Mirror dimensions	mm	30×30×4.85
Loaded resonance frequency	Hz	2600
Resolution	nrad	50
Settling time within 5%	ms	1
Position stability	μrad	<25
Capacitance (per axis)	μF	0.5
Power consumption with CCBu20 50 Hz @ +/- 700 μrad	W	9
Power consumption with CCBu20 480 Hz @ +/- 200 μrad	W	13.5
Controller	Driven by custom embedded CTEC electronic and controller board call CCBu20-PROX	
Embedded electronics board	SG conditioning, EEPROM memory, temperature monitoring and compensation	