

DESCRIPTION

FSM for 50 mm diameter mirror with its controller rack.

APPLICATION

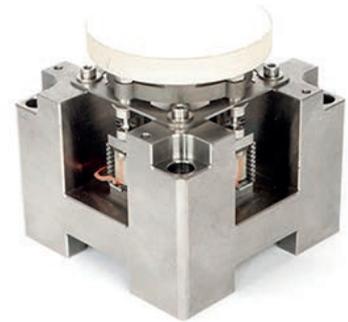
High power Laser, atmospheric disturbance compensation.



DTT10M-SG-SV and electronic rack

ENVIRONMENTAL CONDITIONS

- CTEC commits on mirror flatness in operations
- Operation temperature: -10°C/+50°C
- Storage temperature: -20°C/+70°C
- Vibrations: Random 4 Grms up to 500 Hz
- Shock: Half Sine 20G 11 ms



DTT10M-SG-SV

PARAMETER	UNIT	DTT10M-SG-SV
Angular stroke Rx & Ry +/-	mrad	0.25
Dimensions	mm	65×65×65
Total mass	g	860
Mirror mass	g	30.25
Mirror dimensions	mm	ø50×7
Mirror flatness		L/10 (632 nm) over CA 90 %
Loaded resonance frequency	Hz	5100
Settling time within 5%	ms	0.7
Accuracy	μrad	<1
Linearity	%	<0.25
Control bandwidth	Hz	1000
Capacitance (per axis)	μF	1
INVAR material to reduce the mechanism CTE and mismatch with the optical components		